



REPORT OF THE
Hydro-Electric Power
Commission
OF ONTARIO
1946

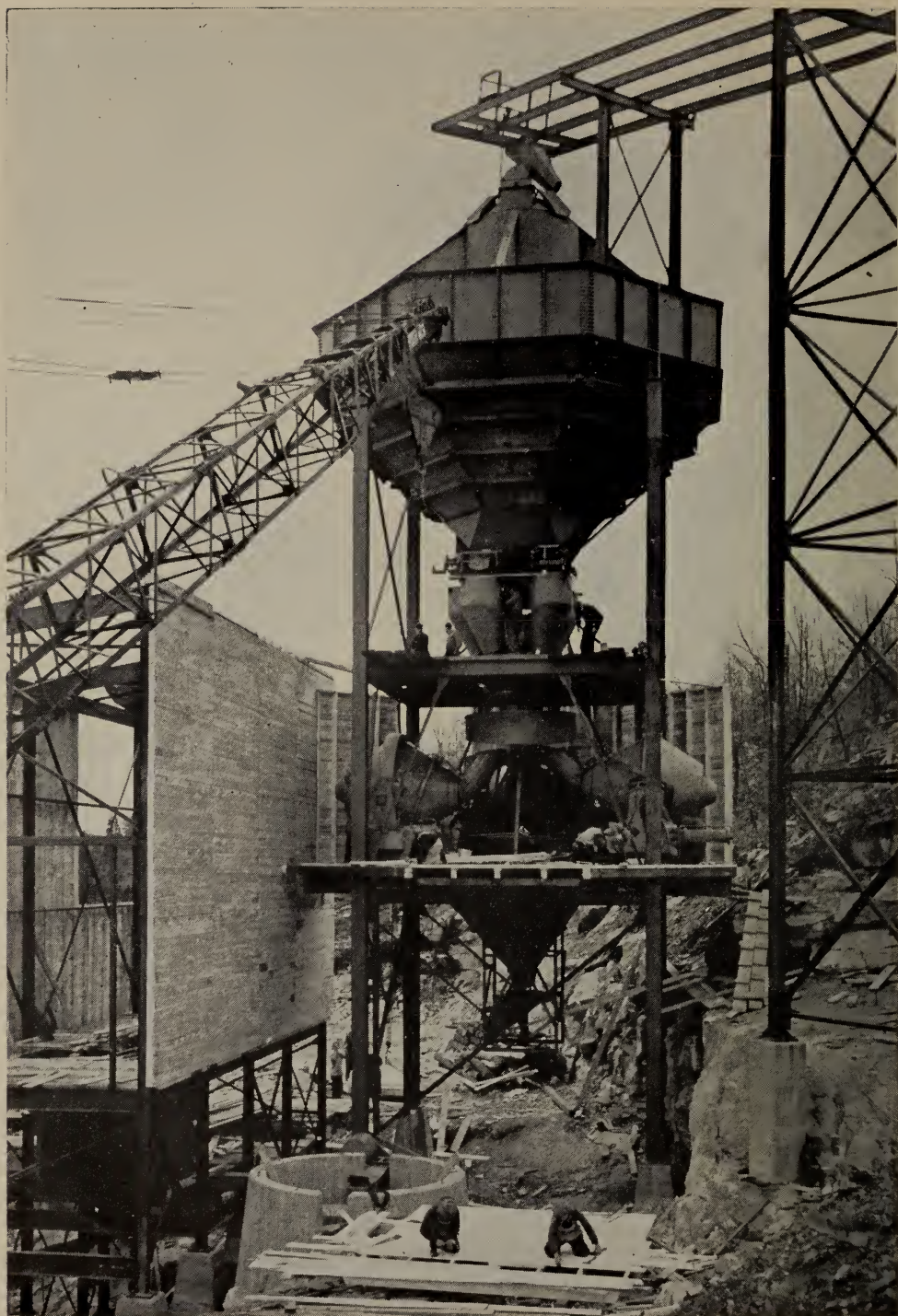
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WILLS, MACLACHLAN



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MODERN EQUIPMENT SPEEDS CONSTRUCTION

Concrete mixing unit at Stewartville power development, Madawaska river. This equipment was later enclosed in an octagonal building with conical roof

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THIRTY-NINTH ANNUAL REPORT

OF

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1946



ONTARIO

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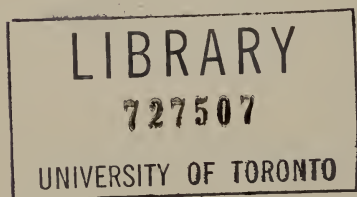
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THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

1946

T. H. HOGG, B.A.Sc., C.E., D.ENG.....Chairman
HON. GEORGE H. CHALLIES, PHM.B., M.L.A.....Vice-Chairman
W. ROSS STRIKE, K.C.....Commissioner
OSBORNE MITCHELL.....Secretary



HEAD OFFICE

620 UNIVERSITY AVENUE • TORONTO 2, ONTARIO

CHAIRMAN'S LETTER OF TRANSMITTAL

To His Honour

THE HONOURABLE RAY LAWSON, O.B.E., LL.D.,

Lieutenant-Governor of Ontario

MAY IT PLEASE YOUR HONOUR:

The undersigned respectfully presents the Thirty-ninth Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year which ended October 31, 1946.

The record of the Commission's work presented in this Annual Report relates to three principal fields—the co-operative municipal field, the field of rural supply, and the northern Ontario field. The first two cover the Commission's activities on behalf of the co-operative systems, and the last relates to its trusteeship of the Northern Ontario Properties on behalf of the Province. Throughout the various sections of the Report dealing broadly with physical operation of the plants, constructional activities and financial statements, these fields of activity are clearly differentiated.

The Report also presents for the calendar year 1946, financial statements and statistical data relating to the municipal electric utilities operating in conjunction with the co-operative systems for the supply of electrical service throughout the Province.

HYDRO IN 1946

In Retrospect

At the end of 1945, the year that saw the termination of hostilities in Europe and in the Pacific, The Hydro-Electric Power Commission of Ontario was able to express satisfaction that during the whole period of the war no industry in Ontario lacked sufficient power for its need and that, aided by Government restrictions upon certain uses of electricity and voluntary economies cheerfully undertaken by consumers, there had been sufficient power for all essential domestic and commercial purposes.

It had been anticipated that for at least a year after hostilities ceased, even though restrictions on use were removed, the total quantity of power required for all purposes would be substantially less than it had been in the

final period of the war. A reduction in demand was expected, sufficient to restore the margin of reserve power considered desirable for best operating efficiency and to facilitate overhauling of plant and equipment. Surprisingly, this situation did not obtain and as the time for the peak demand of the winter season of 1946-47 approached, the Commission, in order that the demands of industry might be met as fully as possible, requested the citizens of the Province again to economize in their use of Hydro power and energy.

During the war the citizens of Ontario, as of other parts of Canada, modified their uses of Hydro service and economized wherever possible. This tendency was accentuated by the disappearance of new appliances from the market and the difficulty in replacing and repairing worn equipment. Thus the normal growth in the load for domestic uses was held back, but the desire for the higher standard of living that comes with a fuller use of electrical service was still active, was in fact stimulated as the war drew to an end by advertising of post-war appliances and new uses for electricity. When the war ended and as restrictions were removed and it became easier to repair appliances and obtain some new ones, the domestic demand grew; this was accentuated by the return to standard time for the winter months and by other factors.

Similarly with the commercial load: Street signs and street lighting were restored and in some cases improved. The big stores which had been co-operative in restricting their demand during wartime felt free to lead the way back to normal by a much greater use of Hydro lighting and display. The well-planned reconversion of industrial plants to a peacetime programme, also resulted in the power dropped by war loads being quickly re-employed. Furthermore there were many active new plants or war plants converted to new uses which quickly replaced other war loads. Thus demands for electric power increased in the domestic, commercial, industrial and municipal fields.

All Generating Equipment In Use

We have seen that the economy steps taken by everyone helped the Commission to meet all demands for electrical service and thus enabled Ontario to produce the maximum effective output of munitions and equipment. Similar effective steps were taken in all provinces and thus Canada contributed to the allied cause to an extent far beyond what might have been expected from a country with Canada's population. But to accomplish this fine record for electrical service in Ontario, The Hydro-Electric Power Commission had to operate during the last two years of the war with little or no margin of surplus capacity and it had to postpone major maintenance work, relying upon the high standard of service value built into its transmission lines, transformer stations and plant generally. For the most part this confidence in its ability to carry through was justified. But the margin was small and the Commission at the end of the war had no reserves of unused generating capacity; furthermore it had a formidable backlog of rehabilitation work to be done.

Power and energy supplies available to the Commission depend upon the installed generating capacity of its 55 generating plants and upon their maintenance in a state of maximum efficiency; upon the amount of power

purchased, and the terms of the contracts and, in the case of all hydro-electric plants, upon the hydrologic factors of precipitation and storage.

Variations in power demands are greatly influenced by the general level of industrial activity. At the present time notwithstanding shortages in certain basic materials such as fuel and steel, there is intense industrial activity to meet a large backlog of consumer needs, and a substantial increase in domestic use of electricity in both urban and rural communities, which will further increase as more appliances and farm electrical equipment become available.

With this general summary of conditions it will be of interest to review the position just prior to the last fiscal year and record the past year's operations.

Operating Conditions in 1945-1946

During the summer of 1945 over most areas of the Province the precipitation was greater than average. As a result water conditions at the beginning of the winter 1945-1946 were favourable and continued so throughout the winter months. In 1946, however, an early spring run-off, one full month ahead of normal, was followed by extremely light precipitation, especially in the southern part of the Province. This caused a serious water shortage during the summer and fall months of 1946 on the rivers supplying the generating stations of the Georgian Bay and Eastern Ontario divisions of the Southern Ontario system. Not for several years had there been so serious a seasonal water shortage. In the northern part of the Province, water conditions were similar though less severe. The result of these conditions was that the Hydro entered the fall and winter season of 1946-1947, with depleted storage reservoirs.

Meantime the expected recession in power demands following the war did not materialize and primary power demands continued to rise even over those of the later war years. Throughout the winter of 1945-1946 primary peak loads continued, month by month, to exceed the demand for the corresponding months of the previous year and not until the spring and summer, when labour disputes closed down many industrial plants, was there an appreciable drop in demand from the previous year.

In October 1946, following the return of factories to full time production, power requirements reached an all-time high, and continued to increase. In the area served by the Southern Ontario system these demands exceeded the available power resources. Thus, in southern Ontario the Commission, although able to meet all its commitments in respect to delivery of power under its firm power contracts, was not able to meet all the power demands of large industrial users who purchase power on an interruptible basis. Substantial reductions in delivery of both power and energy to this class of customer were necessary during the late fall and winter months of 1946-1947; to these customers the power shortage was very real and serious.

The total peak output from all sources was 2,625,000 horsepower, exceeding the record peak of the previous year by 17,000 horsepower. The peak output for primary power was 2,515,000 horsepower exceeding all previous records for this class of power by 44,000 horsepower or 1.8 per cent higher than the highest levels for all war years.

DISTRIBUTION OF POWER TO SYSTEMS**PRIMARY POWER****20-MINUTE PEAK HORSEPOWER—SYSTEM COINCIDENT PRIMARY PEAKS**

System	1945	1946
	October	
Southern Ontario system.....	2,027,361	2,146,572
Thunder Bay system.....	124,397	141,421
Northern Ontario Properties.....	212,673	226,687
Total.....	2,364,431	2,514,680
	December	
Southern Ontario system.....	2,079,382	2,204,609
Thunder Bay system.....	127,078	139,008
Northern Ontario Properties.....	204,345	242,637
Total.....	2,410,805	2,586,254

PRIMARY AND SECONDARY POWER**20-MINUTE PEAK HORSEPOWER—SYSTEM COINCIDENT PEAKS**

System	1945	1946
	October	
Southern Ontario system.....	2,177,763	2,156,599
Thunder Bay system.....	136,863	151,072
Northern Ontario Properties.....	285,247	287,464
Total.....	2,599,873	2,595,135
	December	
Southern Ontario system.....	2,185,012	2,211,579
Thunder Bay system.....	140,483	152,413
Northern Ontario Properties.....	291,517	294,272
Total.....	2,617,012	2,658,264

The foregoing figures represent loads actually carried; in interpreting them, it must be borne in mind that owing to a deficiency in power resources, loads were somewhat curtailed in Southern Ontario. A comparison of potential power demands in Southern Ontario would show a greater increase than indicated by these figures.

The total energy produced from all sources was 12,672,000,000 kilowatt-hours. This was 184,000,000 kilowatt-hours or 1.5 per cent greater than the production during the previous year. The energy output for primary power purposes dropped 1.4 per cent from 11,110,000,000 kilowatt-hours in 1945, to 10,951,000,000 kilowatt-hours in 1946. This drop, in contrast with the rise in peak demands, reflects the effect of reduced energy demands during part of the year resulting from labour disputes.

Compared with the previous year, primary energy demands in the Southern Ontario system were 1.9 per cent smaller; Thunder Bay system 11.5 per cent greater and Northern Ontario Properties 5 per cent less. Labour disputes were largely responsible for the decline on the Southern Ontario

system. The rise on the Thunder Bay system reflects increased activities in the pulp and paper industry. On the Northern Ontario Properties, demands for the mining and refining of gold increased but this was greatly offset by a reduction in power requirements in the smelting and refining of base metals.

Maintenance and Rehabilitation

The efforts made by the Commission co-operating with Dominion authorities during the war to husband the limited supplies of men and materials were effective, but they left in their train many problems to be solved. With victory achieved therefore the Commission turned to the task of rehabilitating its overworked equipment and in 1946 started the most urgent parts of the post-war maintenance programme already planned. The year's work, however, was greatly handicapped both by the short supply of materials and by the difficulties of releasing any part of the overburdened plant for repairs.

The chief items of maintenance work undertaken during the year were as follows. In southern Ontario the post-war programme of transmission line tower maintenance, and replacement of defective wood poles on a larger programme was commenced. Rehabilitation work included a start in the Toronto metropolitan area to improve the general power supply. In the Thunder Bay district there was extensive work on the transmission line from Cameron Falls to Longlac transformer station. In northern Ontario, chiefly in the Timiskaming district, many miles of wood-pole line were rebuilt. Only absolutely essential work could be carried out on the generating plants in southern Ontario but a number of the smaller generating units in the plants serving the Timiskaming district were completely overhauled and reconditioned. Further details of this work will be found in Sections VI and VII of this Report.

ONTARIO'S GROWING INDUSTRIAL STRENGTH

The intensive production carried on in Ontario throughout the period of the war greatly enlarged the industrial capacity of the Province and brought to management and labour alike new skills and improved manufacturing facilities. These have manifested themselves in several ways but in nearly all cases they result in greater demands for Hydro power.

Due in part to a resumption of peacetime industrial and commercial activity on an enlarged scale but also to an expanded domestic demand free from wartime restrictions, the power requirements of urban municipalities are rapidly increasing. Local industrial plants are modernizing their equipment and expanding their operations; this process almost invariably requires more employees and more power per employee.

Large manufacturing concerns are establishing branch industries in smaller centres sometimes a long way from their parent plants. There is also a noteworthy trend to establish new industries in suburban areas, a tendency particularly marked in such industries as plastics, chemicals,

building products, rubber, electrical appliances and agricultural machinery. Many new industries are being established as a result of ideas developed during the war.

It is noteworthy that branch plants of British concerns are being established in many municipalities throughout the Province.

In addition to the increasing industrial loads supplied by urban municipalities the Commission as is its usual practice has given service to a number of large and important industries established or considering establishment in various parts of the Province. In some cases the necessary power facilities are not within the capacity of the physical equipment of the local municipal Hydro, in other cases the nature of the undertaking renders it desirable for the Commission itself to supply service to the industry as a system customer.

In addition to expansion in well established industries such as the chemical industry, electro-smelting and furnaces, which are increasing to capacities greater than obtained during the war, and the cement industry at present working at full capacity, the intense war production carried on especially in the areas served by the Southern Ontario system has led to the creation of industries manufacturing products not heretofore attempted in the Province. This phase of the present industrial growth is especially fostered by new skills developed during the war and may be of far reaching importance.

In Northern Ontario

There is marked activity in the search of new gold mines in northern Ontario. Many of these may develop as producing mines in the next few years. On the other hand the acute shortage of labour still handicapped in 1946, the older producing gold mines. The production of base metals is increasing in a satisfactory manner. This is also true for non-metallic minerals. Very large demand for the output of pulp and paper mills is being experienced, and it is noteworthy that Kraft pulp mills are being established in conjunction with saw-mills so that more of the scrap can be manufactured into pulp.

REMARKABLE GROWTH OF RURAL ELECTRICAL SERVICE

For many years rural electrical service has been a significant factor in the economic life of Ontario, but its growth during the past ten or twelve years has made its operations of substantial importance — in magnitude of capital invested, in miles of transmission and distribution lines, in aggregate horsepower utilized, and not least in the number of consumers served. The point may be illustrated quite simply by stating that the total number of consumers already served in rural operating areas exceeds the number of Hydro consumers in all the cities of Ontario except the four cities that have a population exceeding 100,000.

At the end of 1946 the total mileage of rural lines constructed or under construction was approximately 23,700. These lines serve or will shortly serve about 178,000 consumers whose aggregate peak load during this winter has at times exceeded 165,000 horsepower. The capital investment in trans-

mission lines and other facilities for distributing power in rural operating areas exceeds \$45,000,000, of which nearly half is represented by the Government grants-in-aid.

During 1946 the supply of materials required for the construction of rural lines improved. The delivery of wood poles was more satisfactory, but deliveries of conductors and line hardware were insufficient to permit the completion of more than 60 per cent of the primary line extension programme originally proposed. Service connections on existing and new lines were also delayed due to the non-delivery of suitable transformers.

Approximately 1,200 miles of primary line were actually constructed in 1946 and service was given to about 16,500 new consumers, 13,300 of whom received service from existing lines. Notwithstanding a general decrease in power taken by former war industries served from rural lines, the use of power in rural areas increased during the year by no less than 25 per cent.

In previous years the maximum aggregate power sold in rural areas occurred during the summer months of July or August. This was due to the incidence of the summer resort and summer cottage demands during the holiday season. In the latter part of the summer of 1946, however, so rapidly were customers being added to the rural lines that the usual drop in load following the exodus from summer resorts was more than counterbalanced by the increased demand of permanent residents in rural areas, so that during the month of October a peak exceeding 164,000 horsepower was established as compared with 159,000 horsepower in August, which itself was 20 per cent higher than the previous summer peak.

At the end of October, 1946, there were on hand enough rural applications for service to warrant the construction of 7,310 miles of new primary line. The Commission's construction plans call for the building in 1947 of about 1,500 miles of line. This programme, however, itself depends upon whether material and equipment in sufficient quantity become available.

It is necessary again to draw attention to an important limiting feature to the programme of extensions in rural operating areas. During the war even after certain restrictions had been eased, material was so short that in the interest of food production it was used for extensions rather than for improvements to service. This in itself aggravated a condition developing with increased load, namely, insufficient capacity on many existing lines to supply satisfactory service. Thus ever since the termination of hostilities it has been imperative in many districts to increase the capacity of certain lines before satisfactory service can be given by means of further extensions. The Commission is using the supplies, material and equipment available to the best advantage but it would be unwise to impair the service given to existing consumers by extending lines and adding new customers in areas where the main primary lines are even now of insufficient capacity.

Construction and Planning

In view of the very evident trend of the demand for power in Ontario to increase still further and accentuate the power shortage, the Commission

is doing all in its power to hasten construction on several power developments and to extend transmission and distribution facilities as quickly as possible.

The intensive planning that characterized the Commission's activities in 1945 was followed in 1946 by the commencement of construction on power developments and on important transmission lines and transformer stations. The volume of work now underway is immensely greater than for some years past.

In the Niagara division the major piece of work is the installation of a second unit of 70,000 horsepower at the DeCew Falls 25-cycle plant. The new unit and its setting are similar to the initial installation, but important changes are being made, including increased storage facilities in the headwaters area and extensive improvement in tail-water channels. The operating head of the DeCew Falls plant will be increased from 265 feet to 280 feet, partly by raising the head-water level but chiefly by excavation of tail-race channel. The estimated cost is \$7,693,000 and the new unit is planned to come into operation in September, 1947.

In the Georgian Bay division no new generating plant was under construction but structures were renovated at the South Falls development. The Commission rented a steam plant of 5,000 horsepower at Nobel to augment the power supplies during the heavy summer load period.

In the Eastern Ontario division a second major power project on the Madawaska river was started at Stewartville, downstream from Barrett Chute which was constructed during the war, and eight miles from Arnprior. This development will have a capacity of 81,000 horsepower with three units each of 27,000 horsepower operating under a head of 150 feet created by a gravity type dam spanning the river and will supply 60-cycle power for the Southern Ontario system. The estimated cost of the complete hydro-electric development with step-up transformers is \$10,470,000, and with the associated transmission lines to Oshawa, the total is \$13,724,000. Construction was started in October, 1945, and it is expected the plant will be in operation by January, 1948.

Major Development Planned

To augment further the power supplies of the Southern Ontario system preliminary work was commenced on the Des Joachims development on the Ottawa river, 136 miles from the city of Ottawa and about 38 miles upstream from Pembroke. This development will be larger than any other Commission plant except that at Queenston and will have an initial capacity of 360,000 horsepower in 6 units which may later, should additional storage be provided on the upper Ottawa drainage basin, be increased to 480,000 horsepower with 8 units. The plant will operate under a head of about 130 feet. Field surveys have been under way for some time and active construction has commenced. The estimated cost for the initial hydro-electric development of 6 units with step-up transformers is \$51,000,000 and the additional cost for transmission lines will be \$24,000,000 a total of \$75,000,000. It is expected that this plant will be in operation during the year 1950.

To supply additional power for the Thunder Bay system a power site near the mouth of the Aguasabon river is being developed. The installation will comprise 2 units each of 26,500 horsepower which will operate under a head of 290 feet with a total capacity of 53,000 horsepower. Of this amount 15,000 horsepower will be supplied to the Longlac Pulp & Paper Company Limited and the remainder will be used to supplement the power resources of the Thunder Bay system.

The water supply for this development will be derived in large measure from the upper part of the Kenogami river drainage basin by means of the Long Lake diversion project, supplemented by the run-off from the drainage basin of the Aguasabon river. Estimated costs for hydro-electric development complete with step-up transformers \$8,511,000, for a transmission line to tie in with the Nipigon river plants at Alexander \$1,474,000. Total \$9,985,000. Construction commenced in May, 1946, and completion of the development is planned for September, 1948. For the Thunder Bay system there will also be constructed a fourth transmission circuit from Alexander to Fort William at a cost of \$2,142,000.

To meet the increase in demands for power in the Patricia district of the Northern Ontario Properties the fourth and last unit with a capacity of 7,500 horsepower is being installed at Ear Falls development on the English river. This will increase the rated capacity of the plant to 25,000 horsepower. The work at Ear Falls began in August, 1946 and is expected to be finished in December, 1947. In this district also, unit No. 1 at Rat Rapids on lake St. Joseph was reinstalled. This unit of 1,500 horsepower was burnt some years ago; the generator was rebuilt and came into service toward the end of December, 1946. The estimated cost of these installations is \$1,791,000.

Increased Transmission Facilities

It is important to remember that the development of water power and the provision of generating stations is but half the process of providing supplies of electrical power. The electricity must be transported long distances and adapted for delivery to consumers. At the generating stations electricity must be "stepped up" to a high voltage for transmission; the step-up transformers are usually considered a part of the equipment of the generating station. At the other end of the main transmission line the voltage must be stepped down at main transformer stations for further transmission to smaller municipal and other distribution stations.

The provision of transmission and distribution facilities must be in step with the processes of providing more power. The post-war planning of 1945 has therefore also been translated into action with respect to transmission network improvements.

In the Toronto metropolitan area embracing Toronto and its suburban municipalities important modifications are being made at main transformer stations and additional equipment is being installed. Work started in 1946 includes an increase in the capacity of Toronto-Wiltshire transformer station from 60,000 to 90,000 kva. This will be completed in 1947 at a cost of about \$440,000. The capacity of the Toronto-Esplanade transformer station is

being increased from 50,000 to 100,000 kva to permit the operation of the station in two sections. The work on this improvement began in September, 1946 and is expected to be completed by January, 1948.

To provide a new 220,000-volt terminal transformer station in the Toronto metropolitan area construction work is underway on Kipling avenue in the township of Etobicoke immediately west of the city. The erection of the 110,000-volt switching equipment at Kipling transformer station is progressing and should be ready for service early in 1947. Plans for the immediate future at this station include two 25,000-kva transformers which should be in service early in 1948 to reinforce the power supply to Islington and the surrounding area. In the meantime the supply is being augmented by increasing the capacity of York transformer station from 30,000 to 45,000 kva. Additional transformer capacity of 16,000 kva is being installed on the site of the new Scarborough transformer and frequency-changer station to reinforce the supply of power in the Scarborough area where certain industrial developments are taking place. It will be ready for service in July, 1947.

Frequency-Changer Stations

In order to integrate the Niagara, Eastern Ontario and Georgian Bay divisions of the Southern Ontario system so that surplus generating capacity in any one division may be made available and used to supply power to any other division an extensive undertaking was started in July, 1946, to construct a frequency-changer station at Scarborough situated immediately to the east of the city of Toronto, together with the necessary transmission lines, transformer stations and auxiliary equipment. The first part of the new integrating project is a tie line between the Eastern Ontario and Georgian Bay divisions and comprises a 110,000-volt transmission line, 81 miles long, from Oshawa to Barrie with a 15,000-kva step-down station at Barrie and 110,000-volt switching equipment at Oshawa; this was all placed in service on July 1, 1946. The second part of this integrating project comprises frequency-changers at Scarborough and a 110,000-volt line from Scarborough to Leaside. Two 25,000-kva frequency-changers with associated transformers and switching equipment will be provided. The first frequency-changer set is now under construction and a second one has been ordered. The estimated cost of this project is \$5,835,000. This interchange of power will be strengthened in 1947 by the completion of a 110,000-volt line between Barrett Chute and Oshawa. This line will later be extended to the Stewartville development when that development is ready to furnish power.

In the Cornwall area a new 110,000-volt transmission line 51 miles long between Ottawa and Cornwall was placed in service in April, 1946 and the permanent switching stations at Cornwall and Ottawa are progressing. To supply power to Canadian Industries Limited at Cornwall a 15,000-kva transformer station will be ready for service in February, 1947.

At the other end of the area served by the Southern Ontario system, in the Essex district, work on the important alterations that are being made to the Essex transformer station continued during 1946. These improvements which will cost more than \$1,000,000 are expected to be completed by March, 1947.

Many other additions to transformer capacity and transmission line facilities were proceeded with during the year including extensive changes and improvements to the transmission lines and station facilities in the Abitibi and Timiskaming districts of the Northern Ontario Properties and for the Thunder Bay system.

FINANCIAL OPERATING RESULTS

Although interim rates for power supplied to many municipalities were lower in the first two months of the Commission's financial year than in the same months of the previous year, increased use of power caused 1946 revenues from municipalities to exceed those of the year 1945 by about six per cent. There was also a marked increase in revenue from service to rural consumers. Curtailment of revenues from industrial consumers of the Commission that had been engaged in war work, however, was not fully offset by resumption in 1946 of peace time activities in large industries, interrupted as these were in some cases by industrial disputes. Nevertheless aggregate revenue on the Southern Ontario system from all sources was a little higher in 1946 than in 1945.

The prevailing conditions of materials scarcity and increased prices affected costs of operation adversely. Maintenance costs were also subject to the same influence, although the volume of work that could be carried out was itself limited by availability of materials. Interest costs were lower than in 1945, but the aggregate costs for interest and operating expense of the Southern Ontario system exceeded those of 1945 by about five per cent.

On the Thunder Bay system, enlarged activity in the pulp and paper industry, and resumption of mining loads contributed substantially increased revenues, which were more than sufficient to absorb increase in costs occasioned by the provision of additional system capacity at the end of 1945.

In Northern Ontario, the increased sale of power for gold mining in the later months was almost sufficient to compensate for the reduction in revenue from power for nickel production, which was especially marked in the earlier months. However, coupled with unavoidable increase in costs of operation and maintenance, the net financial result for 1946 is less favourable than those reported for other recent years.

Frequency Conversion - Southern Ontario System

An interim report on frequency conversion in the Niagara division of the Southern Ontario system from 25 to 60 cycles was completed during the year 1946 and since then has been carefully studied by all co-operating municipalities. The report concludes that "There are no insurmountable engineering difficulties involved and there would be marked advantages in having a standard frequency of 60 cycles.

"The problem is whether the present and future advantages of 60-cycle power are sufficiently great to warrant the expense involved in the change-over of a very large 25-cycle system, today totalling 1,000,000 kw of generating capacity (excluding 350,000 kw to be retained for 25-cycle industrial operation).

"The Commission believes that the proposal is entirely practicable from a technical viewpoint . . ."

Regarding certain economic features the report points out that "Apart from the question of costs, economic aspects involve the consideration that frequency changeover is a project that will use many millions of man-hours of labour. This may be beneficial or the reverse, depending upon the timing of the programme. It would not be beneficial if competition for skilled labour made such labour less available for the completion of more important social services. It might on the other hand be very beneficial if, being started, it could be speeded up should economic depression or widespread unemployment threaten."

Miscellaneous Activities

The exceptionally large volume of work now being undertaken by Hydro affects all departments of the Commission's organization.

The year 1946 witnessed a marked expansion in the research programme of the Commission. The return of many research engineers loaned to the Dominion authorities or who had joined the armed services permitted resumption of important research projects relating to many phases of the Commission's operations. The larger part of the Commission's research work relates to practical problems connected with the construction and operation of its systems and these problems increase in scope and importance with the increased construction programme facing the Commission at the present time.

In connection with new developments and transmission line extensions much property was purchased and many rights in the form of perpetual easements were obtained. This work necessitated very extensive surveys, some of which are being performed by the Commission's survey staff.

The Electrical Inspection department which is entrusted with the enforcement of the rules and regulations governing electrical installations in Ontario handled a volume of work greater than in any previous year's history of the Commission. The wiring and equipment permits increased 55 per cent and inspections of wiring and equipment increased by 66 per cent over the previous year's record.

Looking forward to the time when appliances and additional energy will be available the Commission in its promotional and educational work is laying particular stress upon the need for adequate wiring in the urban home and on the farm. In this work it co-operates with the Electric Service League of Canada. Particular attention has been paid during recent years to encouraging the adequate lighting of schools. As this work in connection with the schools becomes known and the beneficial results begin to manifest themselves there is little doubt that there will be a widespread recognition of the need for improvement in the standard of school lighting. In drawing up plans to accompany the reports on school lighting provision for auxiliary outlets and facilities for use in connection with visual education, household science and manual training is not overlooked.

Personnel Training

During 1946 a large number of new employees were engaged to assist with the increasing volume of work facing the Commission. All new employees were carefully selected for specialized activities, and in accordance with Commission policy, preference was given to applicants having served with the Armed Forces.

Accurate records have been assembled of all employees who rendered military service during the period 1939 to 1945. This compilation contains particulars of previous employment with the Commission, details of war service, decorations and other pertinent facts. In the case of former employees of the Commission who died on active service, special care is being taken to complete details of their military service and, with the co-operation of the Records Office at Ottawa, it is hoped that the basic requirements for a permanent memorial can be established.

Linemen's Training School

As reported last year, a Linemen's Training School was established by the Commission at the request of the municipalities. The school has progressed and expanded, and every effort is made to keep the course of instruction interesting and constructive. It is now possible to report that graduates of the school have been carrying out their duties with skill and resourcefulness in various parts of the Province. It is interesting to recall that during a recent emergency resulting from a severe storm, a line gang composed of young men who were completing their course at the school was put to work alongside an experienced crew of veteran linemen. So thorough was the work of the school group that the regular linemen did not know, until a week later, that their fellow-workers were trainees. The operation and success of the Linemen's Training School has aroused widespread interest and many engineers and other interested parties visiting the school have been very favourably impressed.

Post-Graduate Training Courses

About twenty years ago the Commission conducted an experiment in the post-graduate training of young engineers. A recent survey of these men has shown that, largely as a result of this early training, they were now holding higher than average positions. During 1946, forty junior engineers were recruited from the armed forces and from Canadian universities to receive a special course of training with the Commission. It is worthy of note that nearly all the universities of Canada are represented in this group. These young engineers have an opportunity, through the course, of studying many phases of the Commission's operations. After a two-year period, each man will be assigned to that department to which his special aptitudes would be most valuable.

Accident Prevention --- Health Service

Every effort is being made by the Commission, through engineering revision and development of tools and practices, to make the work of its employees as safe as possible. Special emphasis is being placed on preventive measures to counteract the menace of electric shock, falling poles and other types of accident.

The Commission's medical director is engaged in developing ways and means of improving the general health of employees, and, in the case of construction camps, of caring for the sick and superintending surgical treatment. Nurses are available at the head office and at two of the more remote colonies. The presence of a nurse in isolated colonies provides re-assurance to employees and members of their families. Such measures contribute to greater employee efficiency and the satisfactory operation of the Commission's affairs.

CAPITAL INVESTMENT AND RESERVES

Capital Investment

The total capital investment of The Hydro-Electric Power Commission of Ontario in power undertakings is \$393,339,253.63 exclusive of government grants in respect of construction of rural power districts' lines (\$24,391,821.23) and the investment of the municipalities in distributing systems and other assets is \$152,205,948.00, making in power undertakings a total investment of \$545,545,201.63.

The following statement shows the capital invested in the respective systems, properties and municipal undertakings, etc:

Southern Ontario system.....	\$301,815,803.90
Thunder Bay system.....	23,164,049.54
Office and service buildings.....	4,426,321.08
Construction plant and inventories.....	8,779,427.85
Total capital investments in co-operative systems.....	\$338,185,602.37
Northern Ontario Properties—Operated by H-E.P.C. on behalf of the Province of Ontario.....	54,634,498.89
Northern Ontario Properties—Construction plant and inventories.....	519,152.37
Total Commission capital investments.....	\$393,339,253.63
Municipalities' distribution systems.....	110,207,968.64
Other assets of municipal Hydro utilities.....	41,997,979.36
Total.....	\$545,545,201.63

Reserves of Commission and Municipal Electrical Utilities

The total reserves of the Commission and the municipal electrical utilities for depreciation, contingencies, stabilization of rates, sinking fund and insurance purposes, amount to \$414,830,047.20, made up as follows:

Southern Ontario system.....	\$221,364,565.22
Thunder Bay system.....	15,112,946.47
Office and service buildings and equipment.....	1,765,456.17
Total reserves in respect of co-operative systems' properties.....	\$238,242,967.86
Northern Ontario Properties.....	24,580,611.46
Fire insurance reserve.....	176,232.36
Miscellaneous reserves.....	807,069.49
Employers' liability insurance, and staff pension reserves.....	13,125,739.57
Total reserves of the Commission.....	\$276,932,620.74
Total reserves and surplus of municipal electric utilities.....	137,897,426.46
Total Commission and municipal reserves.....	\$414,830,047.20

REVENUE OF COMMISSION

The revenue of the Commission at interim rates from the municipal utilities operating under cost contracts, from customers in rural power districts and from other customers with whom—on behalf of the municipalities—the Commission has special contracts, all within the Southern Ontario and Thunder Bay systems, aggregated \$52,300,876.97. The revenue of the Commission from customers served by the Northern Ontario Properties, which are held and operated in trust for the Province, was \$6,096,699.60, making a total (excluding \$227,018.36 of Northern Ontario Properties revenue transferred to Thunder Bay system in respect of power supplied) of \$58,170,558.21.

Summarized operating results of these co-operative systems and rural power districts and of the Northern Ontario Properties, follow:

Summarized Operating Results

SOUTHERN ONTARIO SYSTEM—THUNDER BAY SYSTEM

RURAL POWER DISTRICTS

Revenue: amount received from or billed against municipalities and other customers.....	\$45,277,630.85	
Revenue from customers in rural power districts (retail).....	7,023,246.12	
	<hr/>	
Total revenue, systems and rural.....		\$52,300,876.97
Operation, maintenance, administration, interest and other current expenses.....	\$34,225,096.00	
Provision for reserves—		
Renewals.....	\$2,847,313.47	
Contingencies and obsolescence.....	9,132,976.79	
Stabilization of rates.....	(90,335.81)	
Sinking fund.....	3,250,979.08	
	<hr/>	
		15,140,933.53
		<hr/>
		49,366,029.53
Balance.....		<hr/> <hr/>
		\$2,934,847.44

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
In trust for the Province of Ontario

Revenue: amount received from or billed against municipalities and other customers.....		\$6,096,699.60
Operation, maintenance, administration, interest and other current expenses.....	\$4,367,926.87	
Provision for reserves—		
Renewals.....	\$484,696.78	
Sinking fund.....	1,559,352.05	
	<hr/>	
		2,044,048.83
		<hr/>
		6,411,975.70
Loss.....		<hr/> <hr/>
		\$315,276.10

COMPARATIVE FINANCIAL STATEMENTS 1945-1946**Cooperative Systems of the Commission****SOUTHERN ONTARIO SYSTEM**

Embracing Niagara, Georgian Bay and Eastern Ontario divisions

	1945	1946
	\$ c.	\$ c.
OPERATING EXPENSES AND FIXED CHARGES		
Power purchased.....	10,832,402.63	11,237,627.75
Operation, maintenance and administration.....	8,212,118.86	9,547,675.73
Interest.....	11,696,222.61	11,859,115.38
Provision for renewals.....	2,590,685.26	2,670,559.08
Provision for contingencies and obsolescence.....	10,640,505.26	8,575,543.00
Sinking fund.....	2,993,496.03	3,038,449.91
TOTAL COST OF POWER.....	46,965,430.65	46,928,970.85
REVENUE from municipalities at interim rates, from rural consumers and from private customers under contract rates	49,083,310.70	49,808,740.93
Net balance credited to municipalities under cost contracts....	2,117,880.05	2,879,770.08

THUNDER BAY SYSTEM

	1945	1946
	\$ c.	\$ c.
OPERATING EXPENSES AND FIXED CHARGES		
Operation, maintenance and administration.....	493,229.05	672,703.85
Interest.....	867,165.10	907,973.29
Provision for renewals.....	166,639.99	176,754.39
Provision for contingencies and obsolescence.....	566,797.02	557,433.79
Provision for stabilization of rates.....	(48,619.76)	(90,335.81)
Sinking fund.....	199,891.67	212,529.17
TOTAL COST OF POWER.....	2,245,103.07	2,437,058.68
REVENUE from municipalities at interim rates, from rural consumers and from private customers under contract rates	2,302,101.75	2,492,136.04
Net balance credited to municipalities under cost of contracts..	56,998.68	55,077.36

MUNICIPAL ELECTRIC UTILITIES

The following is a summary of the year's operation of the local electric utilities conducted by municipalities receiving power under cost contracts with the Commission:

Total revenue collected by the municipal electric utilities.....	\$46,233,400.34
Cost of power.....	\$28,584,101.31
Operation, Maintenance and administration.....	8,225,733.56
Interest.....	521,209.05
Sinking fund and principal payments on debentures.....	1,208,798.79
Depreciation and other reserves.....	4,267,677.13
	<hr/>
Total.....	42,807,519.84
	<hr/>
Surplus.....	\$3,425,880.50
	<hr/> <hr/>

With regard to the local Hydro utilities operating under cost contracts, the following statements summarize for each of the co-operative systems administered by the Commission, the financial status and the year's operations as detailed in Section X of the Report.

SOUTHERN ONTARIO SYSTEM

The total plant assets of the Southern Ontario system utilities amount to \$105,540,709.94. The total assets, including an equity in the H-E.P.C. of \$76,331,106.59 aggregate \$222,034,482.92. The reserves and surplus accumulated in connection with the local utilities, exclusive of the equity in the H-E.P.C. amount to \$131,966,775.04, an increase of \$7,598,026.24 during the year 1946. The percentage of net debt to total assets is 5.5, a reduction of 1.4 per cent.

The total revenue of the municipal electric utilities served by this system was \$45,054,711.46, an increase of \$2,536,008.18 as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up depreciation and other reserves amounting to \$4,205,691.13 and providing \$1,203,543.95 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Southern Ontario system amounted to \$3,291,690.65, as compared with \$4,262,101.59 the previous year.

THUNDER BAY SYSTEM

The total plant assets of the Thunder Bay system utilities amount to \$2,918,178.26. The total assets, including an equity in the H-E.P.C. of \$4,339,230.26, aggregate \$8,727,901.27. The reserves and surplus accumulated in connection with the local utilities, exclusive of the equity in H-E.P.C. amount to \$4,003,256.51 an increase of \$185,047.25 during the year 1946. The percentage of net debt to total assets is 5.8, a reduction of 0.3 per cent.

The total revenue of the municipal electric utilities served by this system was \$1,178,688.88, a decrease of \$4,869.74 as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up depreciation and other reserves amounting to \$61,986.00 and providing \$5,254.84 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Thunder Bay system amounted to \$134,189.85 as compared with a net surplus of \$164,006.64 for the previous year.

The Hamilton Street Railway Company

Under authority of The Power Commission Act 1930 and Order-in-Council dated April 3, 1930, the Commission acquired as at December 31, 1929 the properties, assets and undertaking of Dominion Power and Transmission Company Limited, including the issued capital stock of The Hamilton Street Railway Company. The Commission continued to operate the Railway on behalf of the Niagara division of the Southern Ontario system, until September 15, 1946.

In 1946 the Legislature enacted "The Hamilton Street Railway Act, 1946". This Act reduced the authorized share capital of the Company from \$4,000,000 divided into 80,000 shares of \$50 each to \$2,000,000 divided into 80,000 shares of \$25 each and authorized the return to the Commission of \$1,602,500, being \$25 per share in respect of each of the 64,100 issued shares of the Company. Subsequently the Commission offered the issued shares of the Company for sale by advertising for tenders under specific terms. The Commission accepted the highest tender of \$1,400,000. The transaction was closed as at September 16, 1946, in accordance with the terms of sale. Certain net reserves and dividends totalling \$2,243,570.60 arising out of this sale were transferred to the "Stabilization Account" of the Southern Ontario system. (See page 148)

The work covered by this Report was performed under the Chairmanship of Dr. T. H. Hogg, who retired on pension on February 28, 1947. The Commission, however, is pleased to announce that while Dr. Hogg has relinquished his executive duties, he is still serving the Commission in a technical capacity as consulting engineer.

This Report would not be complete without the Commission thanking its staff for its faithful and efficient service, and also expressing its gratitude for the continued support given by the press of the Province.

Respectfully submitted,

GEORGE H. CHALLIES,

Vice-Chairman

TORONTO, ONTARIO, MARCH 31, 1947

HON. GEORGE H. CHALLIES, Phm.B., M.L.A.,

Vice-Chairman, The Hydro-Electric Power Commission of Ontario,

Toronto, Ontario.

Sir:

I have the honour to submit, herewith, the Thirty-ninth Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year which ended October 31, 1946. This report covers the operations of the Commission with regard to the supply of power to, or on behalf of, the partner Municipalities of the Co-operative Systems, as well as the administration of the Northern Ontario Properties, which are held and operated by the Commission in trust for the Province of Ontario.

I have the honour to be, Sir,

Your obedient servant,

OSBORNE MITCHELL,

Secretary

IN
NORTHERN
ONTARIO



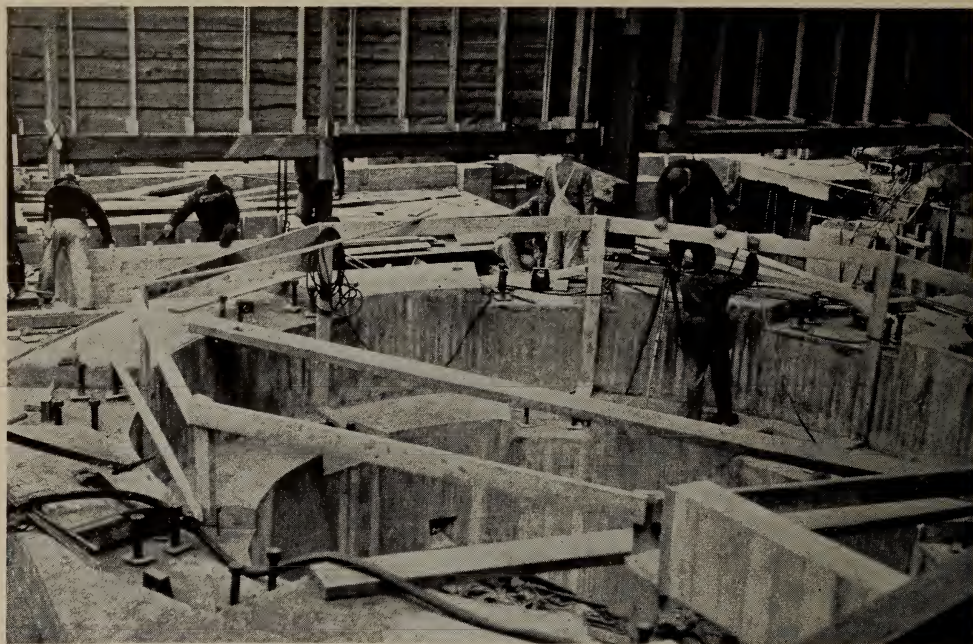
Hydro Power
The mainspring
of successful
mining



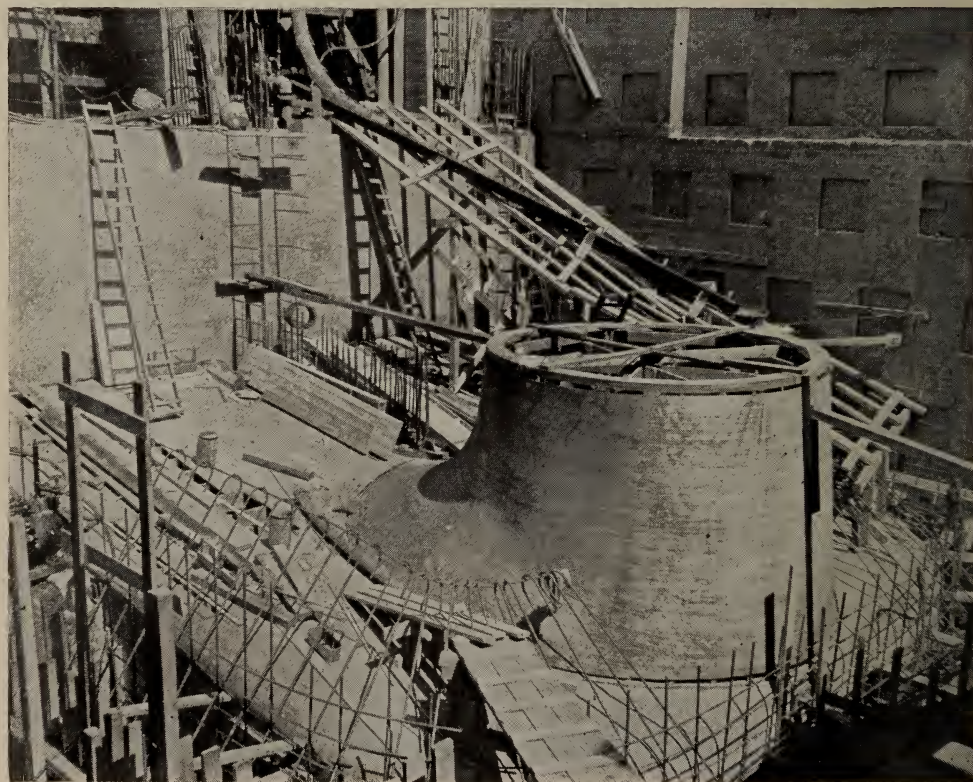
Above: Typical mine shaft

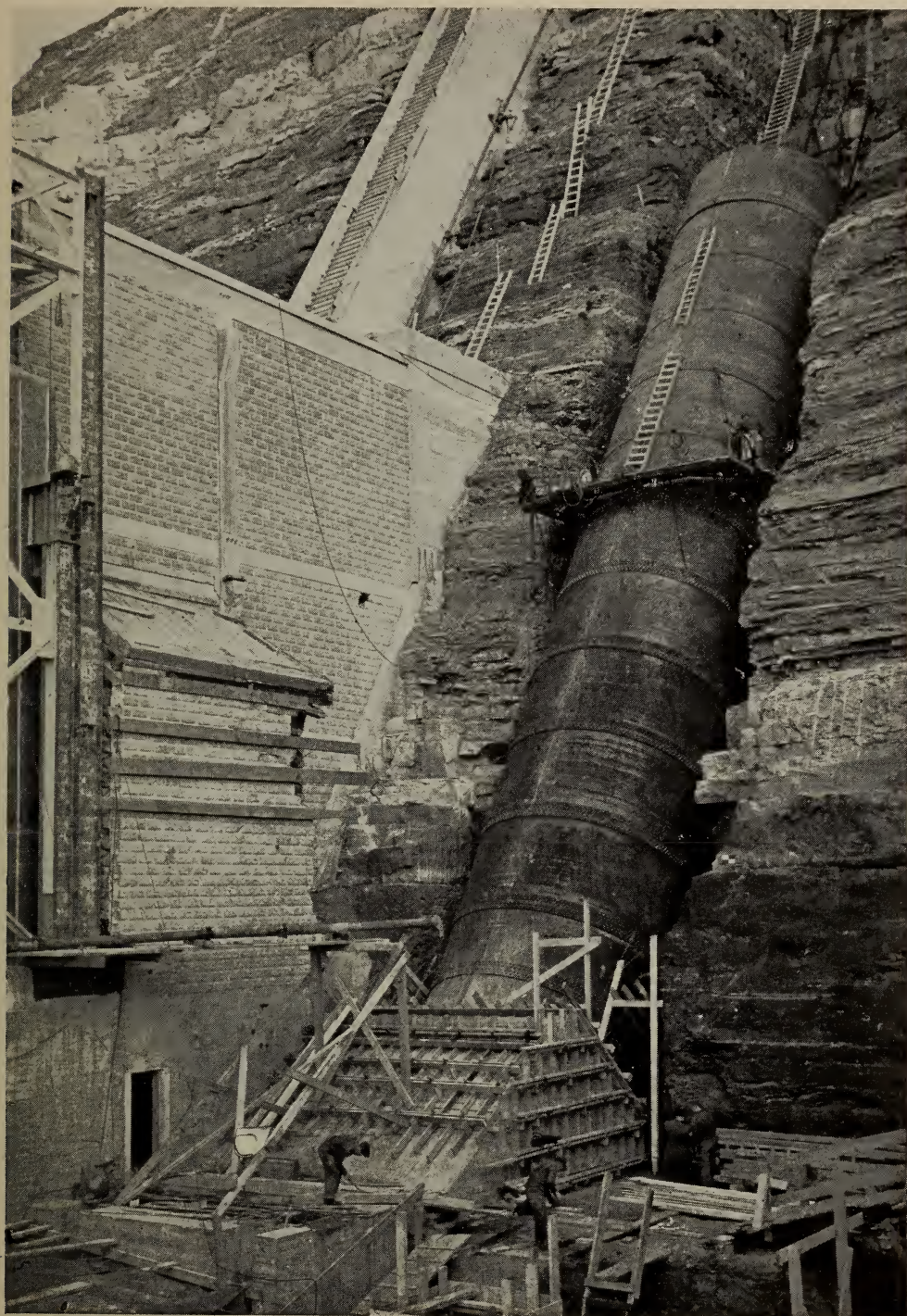
Below: The airplane brings supplies for a Hydro project





DECEW FALLS POWER DEVELOPMENT—Above: Power-house substructure showing turbine pit of No. 2 unit. Below: Draft tube forms

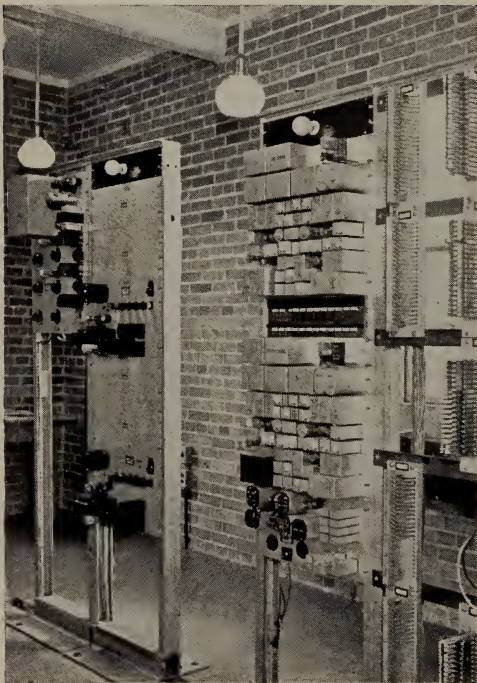




DECEW FALLS POWER DEVELOPMENT —
Erection of 16-foot penstock for No. 2 unit



IMPROVEMENT OF COMMUNICATIONS—Above: New telephone house at Chats Falls. Below: Carrier terminal equipment in new telephone house





LONG LAKE CONTROL DAM: Through this dam is released the water supply from the Long lake diversion project, to augment the flow of the Aguasabon river on which the Commission is constructing a power development



DES JOACHIMS POWER DEVELOPMENT—Preliminary work, in tail-race channel below power-house site. Taking soundings from cable across river to similar structure seen beneath pole at left



PROGRESS IN TRANSPORTATION OF FORESTRY WORKERS

1—Car with equipment on trailer as used up to 1931. 2—Truck equipped with specially designed body for transportation of workers and tools, and disposal of brush. Used to 1936. 3—Improved combination unit for same purposes but having a weather-proof compartment for workers in front body. This is now being superseded by all steel body trucks, illustrated on page 35



DECENTRALIZATION OF INDUSTRY — A modern manufacturing plant at Barrie, Ontario



THE RED SEAL—Symbol of a well wired home



THE
LINEMEN'S
TRAINING
SCHOOL

Learning to erect a pole



TORNADO DAMAGE—Razed by a tornado, a transmission tower similar to that at the extreme left of the picture lies in a flooded field near Windsor

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THIRTY-NINTH ANNUAL REPORT OF The Hydro-Electric Power Commission of Ontario

FOREWORD and Guide to the Report

THE Hydro-Electric Power Commission of Ontario administers a co-operative municipal-ownership enterprise, supplying power throughout the Province of Ontario. The Commission was created in 1906 by special act of the Legislature and followed investigations by advisory commissions appointed as a result of public agitation to conserve the water powers of Ontario as a valuable asset of the people and to provide a more satisfactory supply of low-cost power in southern Ontario. In 1907 the Power Commission Act (7-Edward VII Ch. 19) was passed amplifying and extending the Act of 1906, and this Act—modified by numerous amending acts which now form part of the Revised Statutes of Ontario, 1937, Chap. 62, and subsequent amending Acts—constitutes the authority under which the Commission operates.

The Hydro-Electric Power Commission of Ontario consists of a Chairman and two Commissioners, all of whom are appointed by the Lieutenant-Governor-in-Council to hold office during pleasure. One of the Commissioners must be a member of the Executive Council and two may be members.

In 1909, work was commenced on a comprehensive transmission system and by the end of 1910 power was being supplied to several municipalities.

The Commission has now been supplying electrical energy for more than thirty-six years and the Report contains diagrams depicting the growth of the enterprise. During this period the costs of electricity to the consumer have been substantially reduced and the finances of the enterprise have been established on a secure foundation.

At the end of 1946 the Commission was serving 924 municipalities in Ontario. This number included 26 cities, 125 towns and mining townsites, 304 villages and police villages and 469 townships. With the exception of 13 suburban sections of townships known as "voted areas," the townships and 123 of the smaller villages are now served as an amalgamated rural division of Hydro service with a uniform rate structure. Thus, no matter where rural service is given in Ontario by the Hydro, the rural consumer for the same class of service with the same consumption of electricity, pays the same amount on his quarterly bill.

Financial Features of Co-operative Systems

The basic principle governing the financial operations of the undertaking is, that electrical service be given by the Commission to the municipalities

and by the municipalities to the ultimate consumers at cost. Cost includes not only all operating and maintenance charges, interest on capital investment and reserves for renewals or depreciation, for obsolescence and contingencies, and for stabilization of rates, but also a reserve for sinking fund or capital payments on debentures.

The undertaking from its inception has been entirely self-supporting and no contributions have been made from general taxes except in connection with service in rural power districts. In this case, the Province, in pursuance of its long established policy of assisting agriculture and with the approval of the urban citizens, assists extension of rural electrical service by a grant-in-aid of the capital cost and in other ways as specified and detailed in the Report.

As the principle of "service at cost" is radically different from that obtaining in private organizations, where profit is the governing feature, it naturally results in different and in some ways unique administrative features.

The undertaking as a whole involves two distinct phases of operations as follows:

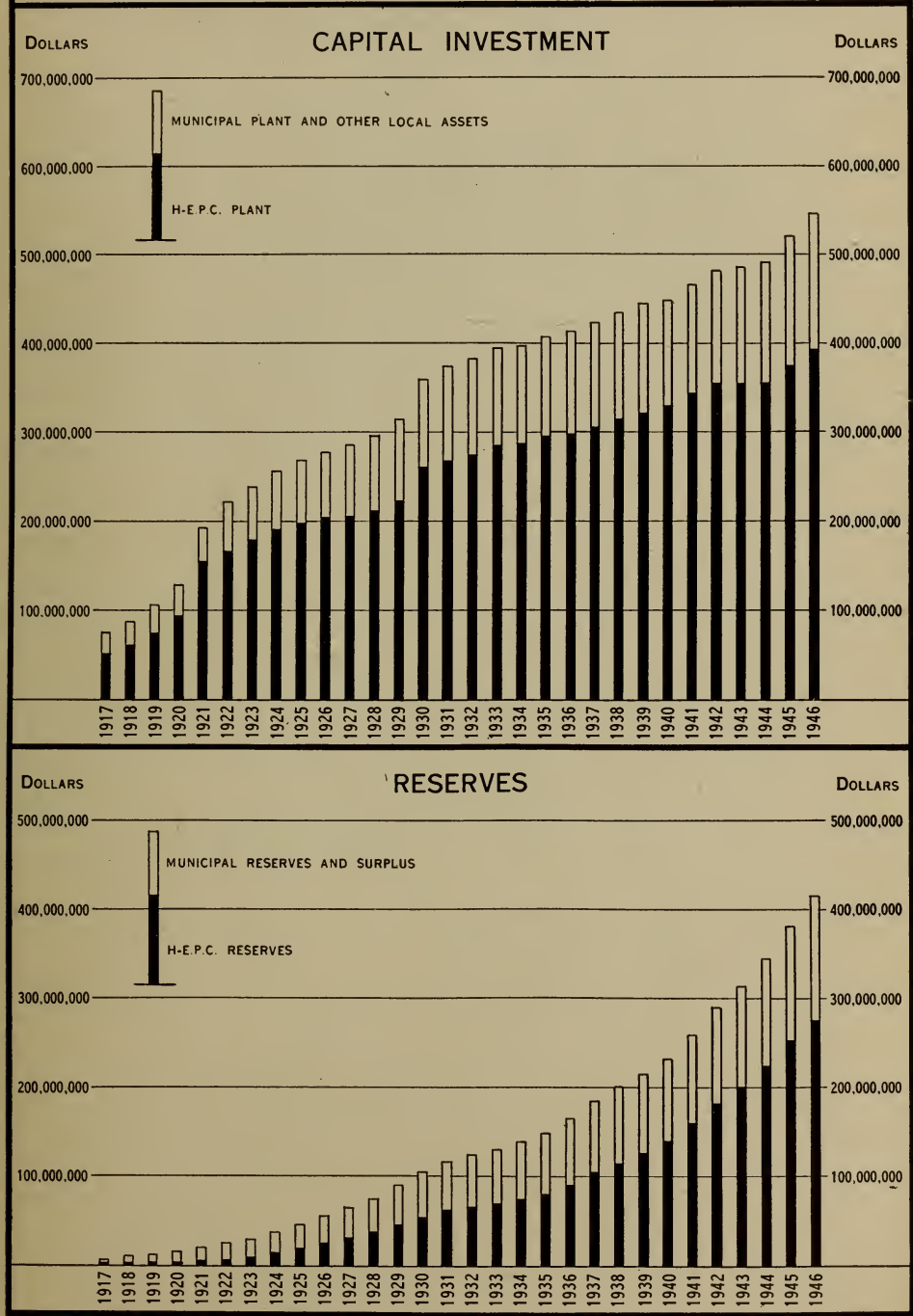
The *First* phase of operations is the provision of the electrical power—either by generation or purchase—and its transformation, transmission and delivery in *wholesale* quantities to individual municipal utilities, to large industrial consumers, and to rural power districts. This phase of the operations is performed by The Hydro-Electric Power Commission of Ontario as trustee for the municipalities acting collectively in groups or "systems", and the financial statements relating to these collective activities of the municipalities are presented in Section IX of the Report. Each system of municipalities, as provided in *The Power Commission Act*, forms an independent financial unit and the accounts are therefore segregated and separately presented for each system. In order, however, that there may be a comprehensive presentation of the co-operative activities of the undertaking as a whole, there are presented, in addition, for the two main systems and miscellaneous co-operative activities, a balance sheet of assets and liabilities, a statement of operations, a tabulation of fixed assets, and summary combined statements respecting the various reserves.

The *Second* phase of operations is the *retail* distribution of electrical energy to consumers, within the limits of the areas served by the various municipal utilities and throughout the rural areas of the Province. In the case of the consolidated rural power districts The Hydro-Electric Power Commission not only provides the power at wholesale, but also—on behalf of the respective individual townships—attends to all physical and financial operations connected with the distribution of energy at retail to the consumers, within the rural operating areas. Summary financial statements relating to rural electrical service are presented in Section IX of the Report, and a general report on this service is given in Section IV.

In the case of cities, towns, many villages and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by individual local municipal utility commissions under the general supervision of The Hydro-Electric Power Commission of Ontario. The balance sheets, operating reports and statistical data relating to the individual urban electrical utilities are presented in Section X of the Report.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

THIRTY YEARS RECORD — ALL SYSTEMS



For the Northern Ontario Properties held and operated by the Commission in trust for the Province there are also presented in Section IX financial statements including a balance sheet, an operating account, and statements respecting reserves and capital expenditures.

Further details respecting administration and explanations of the financial tables presented in the Report are given in the introductions to sections IX and X on pages 123 and 203.

Co-operative Systems Operating

From time to time in accordance with provisions of *The Power Commission Act* various groups of municipalities have been co-ordinated to form systems for the purpose of obtaining power supplies from convenient sources. In some cases these small systems grew until their transmission lines interlocked with those of adjacent systems and it proved beneficial to consolidate the transmission networks and the financial and administrative features. Early in 1944 the three systems serving southern Ontario, the Niagara, Georgian Bay and Eastern Ontario systems, were amalgamated to form the *Southern Ontario System* and financially the amalgamation was made retroactive to apply to the fiscal year 1942-43. The three former systems are now known as *divisions* of the Southern Ontario system.

The Niagara division embraces municipalities in all the territory between Niagara Falls, Hamilton and Toronto on the east and Windsor, Sarnia and Goderich on the west. It is served with 25-cycle power supplied from plants on the Niagara river, supplemented with power transmitted from generating plants on the Ottawa river and with power purchased from Quebec companies.

The Georgian Bay division comprises municipalities in that part of the Province which surrounds the southern end of Georgian Bay and lies to the north of the territory served by the Niagara division. It includes the districts surrounding lake Simcoe and extends as far north as Huntsville in the Lake of Bays district and south to Port Perry. Its power supplies, 60 cycles, are derived chiefly from local water power developments.

The Eastern Ontario division serves all of Ontario east of the areas comprising the Georgian Bay and the Niagara divisions. It includes the districts of Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska; formerly separate systems. Its power supplies, 60 cycles, are from local developments supplemented by purchases from other sources.

The Thunder Bay System comprises the cities of Port Arthur and Fort William, adjacent rural sections, the village of Nipigon, and the mining district of Longlac. Two developments on the Nipigon river supply 60-cycle power.

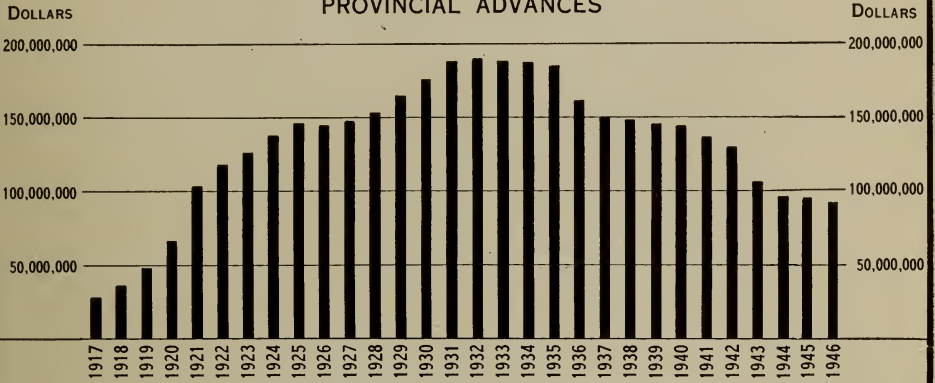
Northern Ontario Properties

In addition to its operations on behalf of the partner municipalities, the Commission, under an agreement with the Province, holds and operates the Northern Ontario Properties in trust for the Province. For the purposes of financial administration these properties are treated as one unit. The principal areas in the vast territory of northern Ontario at present receiving service are the *Abitibi District* comprising the territory served by 25-cycle power from the Abitibi Canyon development, together with a small area in the southern portion of the district of Sudbury in which mining properties are served with 60-cycle power; the *Timiskaming District* comprising the

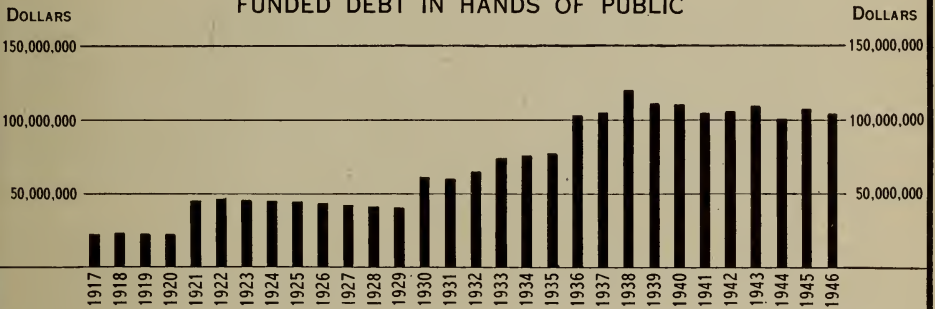
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

PROVINCIAL ADVANCES AND FUNDED DEBT

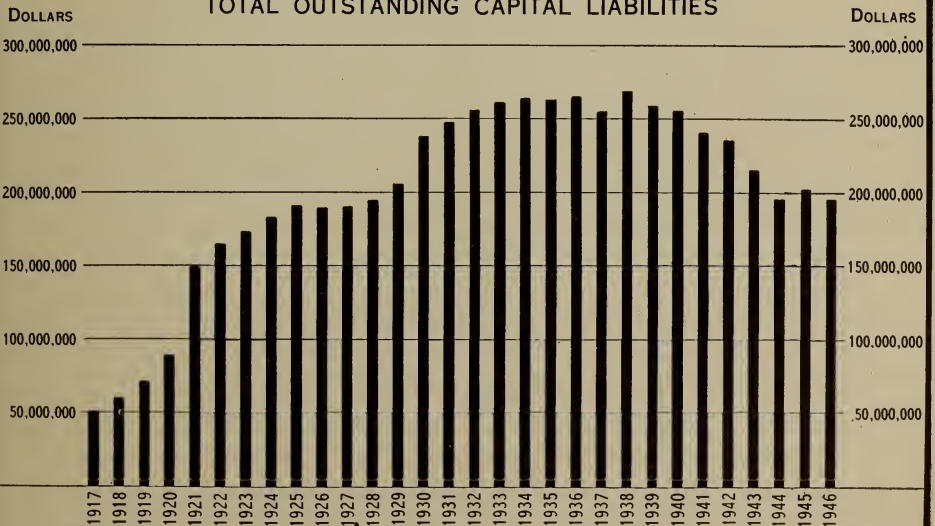
PROVINCIAL ADVANCES



FUNDED DEBT IN HANDS OF PUBLIC



TOTAL OUTSTANDING CAPITAL LIABILITIES



drainage basins of the Matabitchuan river, the Montreal river and a portion of the Mattagami river with eight generating plants, four 25 cycle and four 60 cycle; the *Sudbury District* comprising the city of Sudbury and the adjoining mining area known as Sudbury Basin; the *Nipissing District* centering around the city of North Bay on the shore of lake Nipissing; the *Patricia District* comprising the territory within transmission distance from the Ear Falls development at the outlet of lac Seul on the English river including the Red Lake mining area, and the territory immediately north of lake St. Joseph in the territorial district of Patricia served with power from a development at Rat Rapids on the Albany river; and the *Rainy River district* which derives its power from the Thunder Bay system. Included in the Northern Ontario Properties are rural districts on Manitoulin island, and others adjacent to the communities served in the various districts of northern Ontario. Power supplies are 60 cycle except from Abitibi canyon development, and four plants in Timiskaming district.

The geographic boundaries of the various systems and districts are shown on the maps of transmission lines and stations at the back of the Report.

The power supplies for the systems and Northern Ontario districts are listed in the first table of Section II of the Report on pages 16 and 17.

The Annual Report

The table of contents, pages xxxiii and xxxiv lists the matters dealt with in the Report. At the end of the Report there is a comprehensive index. To those not conversant with the Commission's Reports, the following notes will be useful.

In Section II, pages 15 to 37, dealing with the operations of the systems, are a number of diagrams showing graphically the monthly loads on the several systems and districts. Tables are also presented showing the amounts of power taken by the various municipalities during the past two years.

The rural distribution work of the Commission has proved of widespread interest and special reference to this is made in Section IV on pages 55 to 74.

In Sections VI and VII will be found information respecting progress of work on new power developments and on transmission system extensions, together with photographic illustrations.

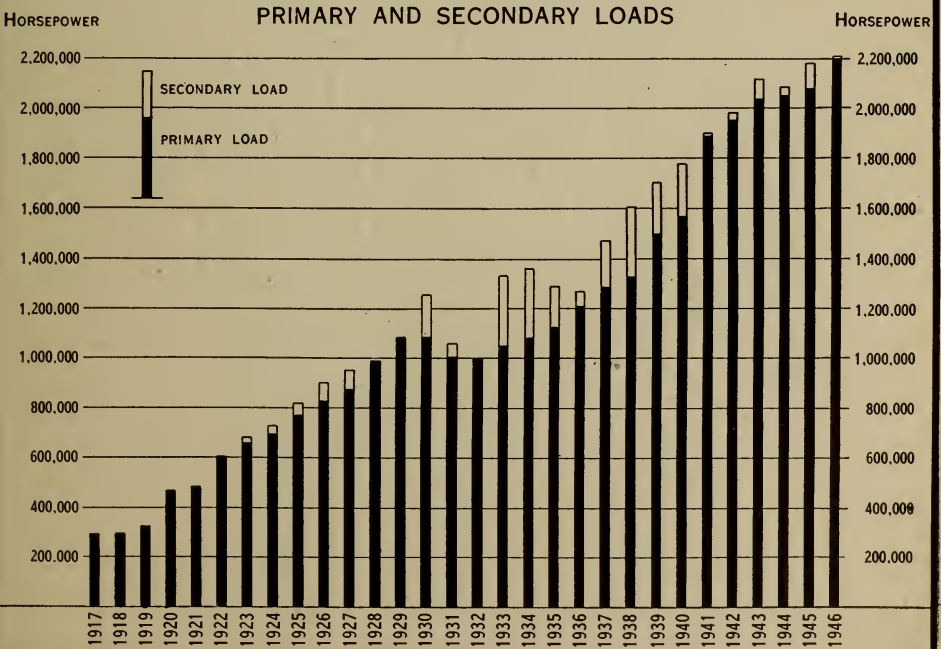
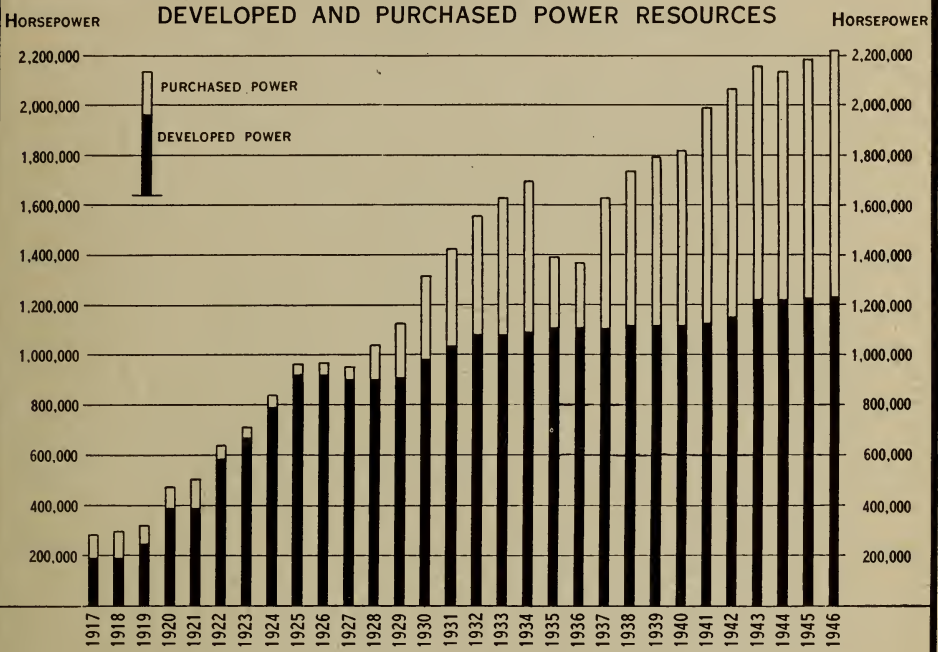
About one-half of the Report is devoted to financial and other statistical data which are presented in two sections IX and X already referred to above.

Frequent enquiries for the rates for service to consumers are received by the Commission. For the urban municipalities served by the Commission these are given in Statement "E" starting on page 340. For the rural power districts they are given in Section IV on page 60. Certain statistical data resulting from the application of the rates in urban utilities are given in Statement "D". This statement is prefaced by a special introduction starting on page 320.

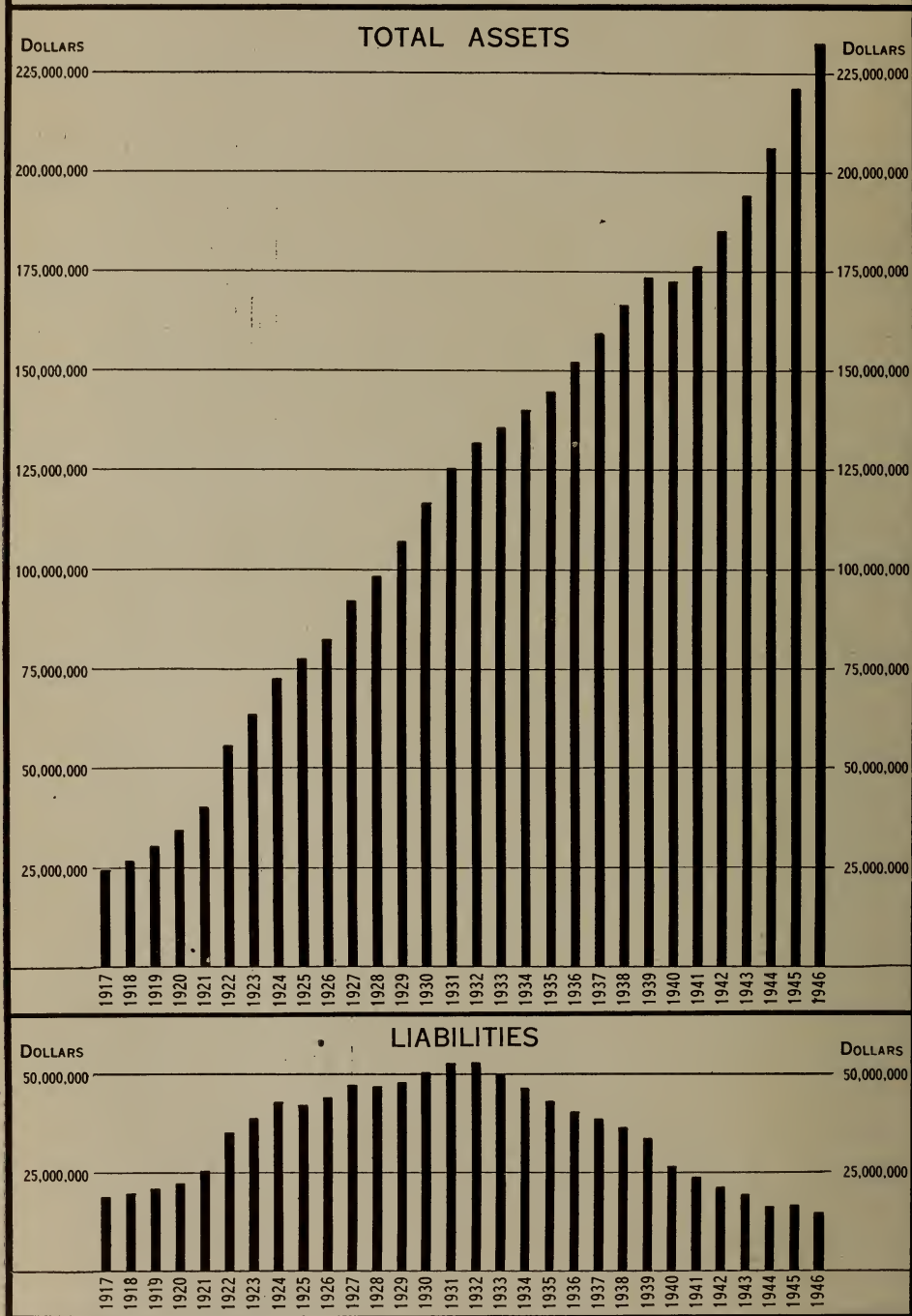
In its Annual Reports the Commission aims to present a comprehensive statement respecting the activities of the whole undertaking under its administration. Explanatory statements are suitably placed throughout the Report. The Commission receives many letters asking for general information respecting its activities, as well as requests for specific information concerning certain phases of its operations. In most cases the enquiries can satisfactorily be answered by simply directing attention to information presented in the Annual Report.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

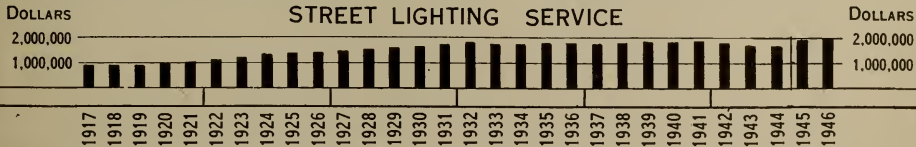
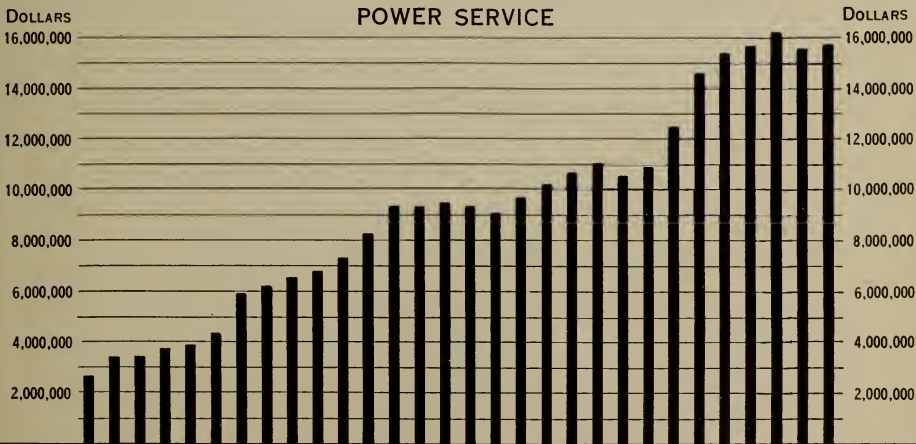
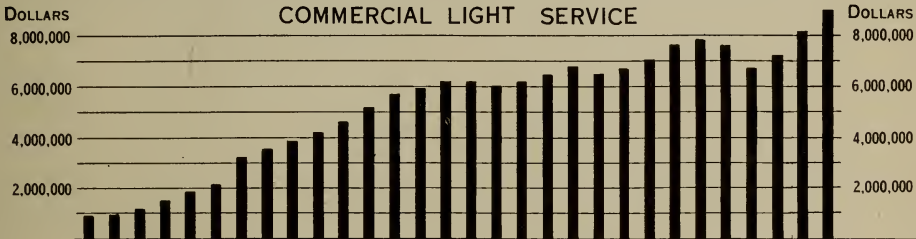
THIRTY YEARS RECORD — SOUTHERN ONTARIO SYSTEM



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES
THIRTY YEARS RECORD

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES
THIRTY YEARS REVENUES



SECTION I

LEGAL

AT THE 1946 Session of the Legislative Assembly of the Province of Ontario an Act respecting The Hydro-Electric Power Commission of Ontario was passed. The said Act is reproduced in full in Appendix I of this Report. The short title of the Act is as follows:

The Power Commission Amendment Act, 1946, Chapter 73.

The agreements between The Hydro-Electric Power Commission of Ontario and municipalities, persons and corporations mentioned in the list hereunder given were approved by Orders-in-Council.

CO-OPERATIVE SYSTEMS

VILLAGES

Bobcaygeon.....	April 9, 1946	Tiverton.....	Sept. 19, 1946
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TOWNSHIPS

Alfred.....	Dec. 5, 1945	Oro.....	April 2, 1946
Darlington.....	Mar. 2, 1946	Reach.....	June 1, 1946
Dover.....	July 10, 1946	Rolph, Wylie, Buchanan & McKay.....	Mar. 27, 1946
Eramosa.....	Jan. 7, 1946	Ryerson.....	Dec. 15, 1945
Esquesing.....	Sept. 3, 1946	Uxbridge.....	Mar. 11, 1946
Greenock.....	Oct. 26, 1946	Yarmouth.....	Sept. 9, 1946
Guelph.....	July 18, 1946		
McMurrich.....	Sept. 22, 1945		

IMPROVEMENT DISTRICT

Wasaga Beach.....	Mar. 12, 1946
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CORPORATIONS

American Nepheline Limited.....	Aug. 2, 1946
Atlas Steels Limited.....	July 23, 1946
Atlas Steels Limited and The Hydro-electric Commission of the City of Welland.....	Dec. 17, 1946
Beaver Wood Fibre Company, Limited.....	June 27, 1946
Beaver Wood Fibre Company, Limited.....	Dec. 18, 1946
Brompton Pulp & Paper Company Limited.....	Aug. 2, 1946
Canada Talc Limited.....	Mar. 6, 1946
Canadian Industries Limited.....	Aug. 26, 1946
Canadian Northern Ontario Railway Company.....	Mar. 30, 1946
Canadian Pacific Railway Company—"Agreement A".....	June 29, 1946
Canadian Pacific Railway Company—"Agreement B".....	June 29, 1946
Cedars Rapids Transmission Company, Limited.....	June 4, 1946

CORPORATIONS (Continued)

Exolon Company Incorporated.....	Feb. 4, 1946
Hayes Steel Products Limited.....	May 29, 1946
His Majesty the King, represented by the Deputy Minister of National Defence for Air.....	April 1, 1946
His Majesty the King, represented by the Minister of National Defence for air.....	Sept. 1, 1946
International Nickel Company of Canada Limited.....	Nov. 11, 1946
Maple Leaf Milling Company, Limited.....	Dec. 2, 1946
National Harbour Board.....	April 17, 1946
Norton Company.....	Nov. 28, 1946
Ontario Paper Company Limited.....	Aug. 26, 1946
Page-Hersey Tubes, Limited.....	Nov. 20, 1946
Roe, A.V., Canada Limited.....	Dec. 1, 1945
Somerville Limited.....	June 3, 1946
University of Toronto.....	June 13, 1946

NORTHERN ONTARIO PROPERTIES

TOWN

Chelmsford.....	Aug. 11, 1941
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TOWNSHIPS

Balfour.....	Aug. 11, 1941	Hanmer.....	Aug. 11, 1941
Barrie Island.....	May 3, 1941	Rayside.....	Aug. 13, 1941
Bleazard.....	Aug. 11, 1941		

MUNICIPALITIES

Black River.....	April 13, 1946	Emo.....	Mar. 6, 1940
Lavallee.....	April 6, 1940		

CORPORATIONS

Amalgamated Larder Mines Limited.....	Jan. 7, 1946
Bayview Red Lake Gold Mines Limited.....	Jan. 15, 1946
Bidgood Kirkland Gold Mines Limited.....	June 6, 1946
Buffalo Ankerite Gold Mines Limited.....	Jan. 4, 1946
Campbell Red Lake Mines Limited.....	Jan. 28, 1946
Canadian Northern Ontario Railway Company.....	June 1, 1946
Dickenson Red Lake Mines Limited.....	Jan. 11, 1946
Falconbridge Nickel Mines Limited.....	Feb. 28, 1946
Golden Arrow Mines Limited.....	April 16, 1946
Hallnor Mines Limited.....	May 7, 1946
Heath Gold Mines, Limited.....	Jan. 2, 1946
Hollinger Consolidated Gold Mines Limited.....	June 5, 1946
Hudson-Rand Gold Mines Limited.....	Mar. 13, 1946
Huronian Company Limited and The International Nickel Company of Canada, Limited.....	April 19, 1946
Huronian Company Limited.....	April 19, 1946
Huronian Company Limited and The International Nickel Company of Canada Limited.....	Oct. 2, 1946
Lake Rowan (1945) Mines Limited.....	Jan. 11, 1946
Lebon Gold Mines Limited.....	Jan. 28, 1946
Madsen Red Lake Gold Mines Limited.....	May 23, 1946
Matachewan Consolidated Gold Mines Limited.....	Sept. 27, 1946
Naybob (1945) Gold Mines Limited.....	May 17, 1946
Nickel Offsets Limited.....	Sept. 16, 1946
Omega Gold Mines.....	April 1, 1946
Pamour Porcupine Mines Limited.....	May 7, 1946
Paymaster Consolidated Mines Limited.....	Mar. 6, 1946
Porcupine Reef Gold Mines, Limited.....	May 16, 1946
Preston East Dome Mines, Limited.....	Aug. 16, 1946
Queenston Gold Mines, Limited.....	Sept. 25, 1946
Silanco Mining & Refining Company Limited.....	Aug. 9, 1946
Silanco Mining & Refining Company Limited.....	Aug. 22, 1946
Wright-Hargreaves Mines Limited.....	Aug. 10, 1946

RIGHT-OF-WAY AND PROPERTY

THE continuing activity in the construction programmes, particularly in the development of additional power sites, has created a large demand for the purchase of property for flooding purposes, station sites, and transmission line rights-of-way. Where ownership of the land affected was not considered necessary, suitable easement rights were obtained.

SOUTHERN ONTARIO SYSTEM

Continuing as in recent years, term easements have been renewed upon expiration, and rights-of-way obtained for newly constructed high-tension transmission lines and rural lines.

Several properties were secured for rural operating area offices, and existing offices have been maintained and where necessary improved.

Niagara Division

Progress has been made in the purchase of lands and easement rights required for the raising of water elevations for power developments on the upper Ottawa river and Madawaska river. Negotiations were commenced to divert existing highway and railway facilities for a distance of approximately 10 miles to provide an adequate water storage area. Arrangements were also made to move a number of existing buildings.

Easement rights were obtained for a 110,000-volt steel-tower transmission line extending northwesterly from Scarborough frequency-changer and transformer station to Barrie transformer station.

Property was purchased to provide a right-of-way for a transmission line from the new Scarborough frequency-changer and transformer station to Leaside transformer station.

Easements were secured and property purchased for the 110,000-volt line from Scarborough frequency-changer and transformer station to Oshawa.

A site was purchased for the new Scarborough frequency-changer and transformer station.

Additional easement rights were secured for the steel-tower line from Kent transformer station to St. Clair transformer station.

Additional lands were purchased for the Islington transformer station and service centre.

The proposed 220,000-volt line from Des Joachims to Burlington was studied and a large amount of preliminary work completed.

Additional property was purchased and easement rights secured in connection with the DeCew Falls development.

Georgian Bay System

Easement rights were obtained for a transmission line from Coldwater junction to Bass Lake distribution station, and from Thornton junction to Alcona Beach distribution station.

Additional term easements were renewed and easement rights negotiated for newly constructed lines.

Property was purchased for several distribution stations including those at Grand Valley and Port Elgin.

Eastern Ontario Division

Several additional properties were purchased in connection with the Stewartville development.

Further progress was made in the acquisition of easement rights for the 110,000-volt transmission line from Merivale Road junction to Cornwall transformer station.

Easement rights were secured for a feeder line from Frontenac transformer station to the Canadian Industries Limited nylon plant situated on the outskirts of Kingston.

A large amount of preliminary work was done in connection with a proposed line from Barrett Chute to Oshawa and some settlements were obtained.

A site was purchased for a transformer station at Cobden.

Easement rights were purchased for a number of rural service lines constructed during the past year.

Buildings were purchased and are being renovated for use as rural offices and superintendents' residences for Plantagenet and Delta rural operating areas.

THUNDER BAY SYSTEM

Progress was made in obtaining a right-of-way for a 110,000-volt steel-tower line from Alexander generating station to Aguasabon, where a new development is being constructed.

An extensive rural service programme in the Fort Francis area made it necessary to acquire many easement rights.

NORTHERN ONTARIO PROPERTIES

Negotiations for many easement rights needed but not previously secured were completed, and rights-of-way for newly constructed lines were acquired in various areas served by the Northern Ontario Properties.

A site was purchased for a distribution station at Blezzard Valley.

SURVEYS

The survey work of the Commission has greatly increased because of the hydraulic developments now in progress at DeCew Falls, Stewartville and Des Joachims and the many new stations and transmission lines being built throughout the Province.

GENERAL

Assessment notices and tax bills from 375 municipalities were certified and where necessary appeals were entered against assessments not in accordance with The Power Commission Act. A total of 762.54 acres of land was acquired for the Commission's purposes, and during the year 165.40 acres of surplus land were sold.

All available land was leased for agricultural or other purposes and the revenue derived therefrom continued to increase.

A number of recently acquired buildings in the immediate vicinity of the head office were renovated for use as temporary office space.

A total of 4,406 documents were secured and recorded during the past year.

SECTION II

OPERATION OF THE SYSTEMS

DURING the fiscal year ended October 31, 1946, no permanently new generating capacity was added to the Commission's power resources. From June 1 to November 30, 1946, the 5,000 horsepower steam plant of the War Assets Corporation at Nobel was operated by the Commission on a rental basis to augment the power sources available to the Georgian Bay division of the Southern Ontario system.

Water conditions during the 1945-46 winter season were very favourable. An early 1946 spring run-off, one full month ahead of normal, was followed by extremely light precipitation, especially in the southern part of the Province. This caused a serious water shortage during the summer and fall months on the rivers supplying the generating stations on the Georgian Bay and the Eastern Ontario divisions of the Southern Ontario system. Not for several years had there been so serious a seasonal water shortage on these rivers. In the northern part of the Province water conditions, on the whole, were similar, though not as serious as those in Southern Ontario, with the result that most storage reservoirs throughout the Province were much below normal level on entering the 1946-47 winter season.

Except for a cyclone which did a large amount of damage to the Commission's transmission lines in the Windsor area, no special operating difficulties were encountered on the Southern Ontario system, although it was a problem, with power demands still holding at or above wartime levels, to release equipment from service duties for necessary maintenance.

Load Conditions November 1, 1945. to October 31, 1946

Contrary to the expectation that power demands would recede following the ending of the war, primary demands continued to rise above those of the war years. Throughout the winter of 1945-46 primary peak loads continued, month by month, to exceed the demand for the corresponding month of the previous year, and not until the spring and summer months, when labour disputes closed down many plants, was there any appreciable drop in demand from the previous year. In October 1946, following the settlement of most of the labour disputes and the return of closed-down plants to production, primary demands reached an all-time high.

TOTAL POWER GENERATED

HYDRO-ELECTRIC GENERATING PLANTS

Generating plants	Maximum normal plant capacity Oct. 31, 1946 horsepower	Peak load during fiscal year		Total output during fiscal year	
		1944-45 horse- power	1945-46 horse- power	1944-45 kilowatt- hours	1945-46 kilowatt- hours
SOUTHERN ONTARIO SYSTEM					
Niagara division					
Queenston-Chippawa—Niagara river.....	500,000	495,979	516,086	2,849,865,000	2,749,065,000
"Ontario Power"—Niagara river.....	180,000	184,987	183,646	1,123,406,300	1,115,761,700
"Toronto Power"—Niagara river.....	150,000	146,113	144,772	844,141,900	841,152,400
Chats Falls (Ontario half)—Ottawa river.....	108,000	117,292	115,952	324,656,150	378,919,150
DeCew Falls (25 cycle)—Welland canal.....	72,000	71,582	74,799	411,503,000	378,532,000
DeCew Falls (66 2/3 cycle)—Welland canal.....	50,000	49,598	51,609	196,880,900	193,767,400
Georgian Bay division					
Big Eddy—Muskoka river.....	9,500	10,556	10,590	38,117,600	34,691,520
Ragged Rapids—Muskoka river.....	10,000	10,858	11,361	41,514,510	39,104,910
Bala No. 1 and No. 2—Muskoka river.....	600	509	496	1,377,840	2,031,760
South Falls—South Muskoka river.....	5,600	5,764	5,764	30,719,820	29,421,390
Hanna Chute—South Muskoka river.....	1,600	1,743	1,743	9,227,500	9,062,100
Trethewey Falls—South Muskoka river.....	2,300	2,279	2,279	11,476,800	11,284,800
Big Chute—Severn river.....	5,800	5,871	5,952	26,507,120	25,988,360
Wadells Falls—Severn river.....	1,200	1,086	1,206	4,019,964	3,793,909
Eugenia Falls—Beaver river.....	7,500	7,882	7,614	23,050,400	22,955,200
Hanover—Saugen river.....	400	402	402	552,528	1,142,688
Walkerton—Saugen river.....	500	483	496	2,159,100	2,110,000
Caledon Electric—Credit river (Hydraulic and Diesel units).....	800	637	757	1,412,660	1,347,120
Nobel steam plant—Rented from the War Assets Corporation.....	5,000	.....	4,993	.....	2,423,040
Eastern Ontario division					
Sidney—Dam No. 2—Trent river.....	4,500	5,395	5,362	23,288,100	21,558,000
Frankford—Dam No. 5—Trent river.....	3,500	3,887	3,954	17,519,650	16,264,050
Sills Island—Dam No. 6—Trent river.....	2,100	2,252	2,232	10,231,040	10,504,720
Meyersburg—Dam No. 8—Trent river.....	7,000	7,942	7,842	38,684,020	35,470,720
Hague's Reach—Dam No. 9—Trent river.....	4,500	5,060	5,027	23,808,220	21,432,470
Ranney Falls—Dam No. 10—Trent river.....	11,500	12,252	11,810	59,409,280	53,429,740
Seymour—Dam No. 11—Trent river.....	4,200	4,692	4,457	21,505,440	18,749,760
Heely Falls—Dam No. 14—Trent river.....	15,300	16,287	16,086	75,443,900	63,984,330
Auburn—Dam No. 18—Trent river.....	2,400	2,869	2,668	12,304,920	10,900,010
Lakefield—Otonabee river.....	2,300	2,373	2,473	7,464,580	8,601,690
Fenelon Falls—Dam No. 30—Sturgeon river.....	1,000	891	938	3,300,575	3,832,265
Galetta—Mississippi river.....	1,100	1,206	1,200	2,902,200	2,998,800
High Falls—Mississippi river.....	3,400	3,485	3,519	9,421,920	10,563,840
Calabogie—Madawaska river.....	6,000	6,434	6,676	26,942,330	25,276,240
Barrett Chute—Madawaska river.....	54,000	53,619	54,960	171,236,600	162,809,200
THUNDER BAY SYSTEM					
Cameron Falls—Nipigon river.....	72,000	74,397	77,748	416,601,900	423,873,400
Alexander—Nipigon river.....	70,000	71,716	73,727	299,628,800	390,710,800
NORTHERN ONTARIO PROPERTIES					
Abitibi district					
Abitibi Canyon—Abitibi river.....	240,000	227,346	203,083	999,847,500	919,932,100
Timiskaming district					
Matabitchuan—Matabitchuan river.....	12,000	11,796	12,064	17,632,000	31,667,300
Upper Notch—Montreal river.....	11,300	10,724	11,662	26,716,430	54,525,000
Fountain Falls—Montreal river.....	2,700	2,681	2,681	7,196,308	13,767,030
Hound Chute—Montreal river.....	4,800	4,859	4,866	14,703,381	23,626,375
Indian Chute—Montreal river.....	3,800	3,887	3,887	10,829,020	18,206,006
Lower Sturgeon—Mattagami river.....	8,000	8,043	8,177	24,196,664	41,168,203
Sandy Falls—Mattagami river.....	4,300	4,290	4,290	11,821,774	18,631,544
Wawaitin—Mattagami river.....	12,200	12,064	12,466	20,545,075	46,830,935
Sudbury district					
Coniston—Wanapitei river.....	5,900	5,831	5,898	24,334,400	28,177,050
McVittie—Wanapitei river.....	3,100	3,150	3,445	17,858,400	18,286,040
Stinson—Wanapitei river.....	7,500	7,802	7,882	22,496,500	27,611,600
Crystal Falls—Sturgeon river.....	10,000	10,925	10,791	36,810,500	31,169,500
Nipissing district					
Nipissing—South river.....	2,100	2,151	2,232	6,963,520	6,852,840
Bingham Chute—South river.....	1,200	1,287	1,267	4,233,040	4,308,640
Elliott Chute—South river.....	1,700	1,890	1,903	4,118,000	4,466,400
Patricia district					
Rat Rapids—Albany river.....	1,800	2,064	2,038	9,973,760	11,145,340
Ear Falls—English river.....	17,000	13,941	15,013	58,021,120	68,024,080
	1,725,000	*	*	8,478,579,959	8,491,910,465

*Because the peak loads on the various generating plants and purchased power sources usually occur at different times, the sum of the individual peak loads would not represent the sum of the peak loads on the systems. These, in the case of each system, must relate to the maximum load occurring at any one time. Consequently, the column "Peak load" is not totalled.

AND PURCHASED—ALL SYSTEMS

POWER PURCHASED

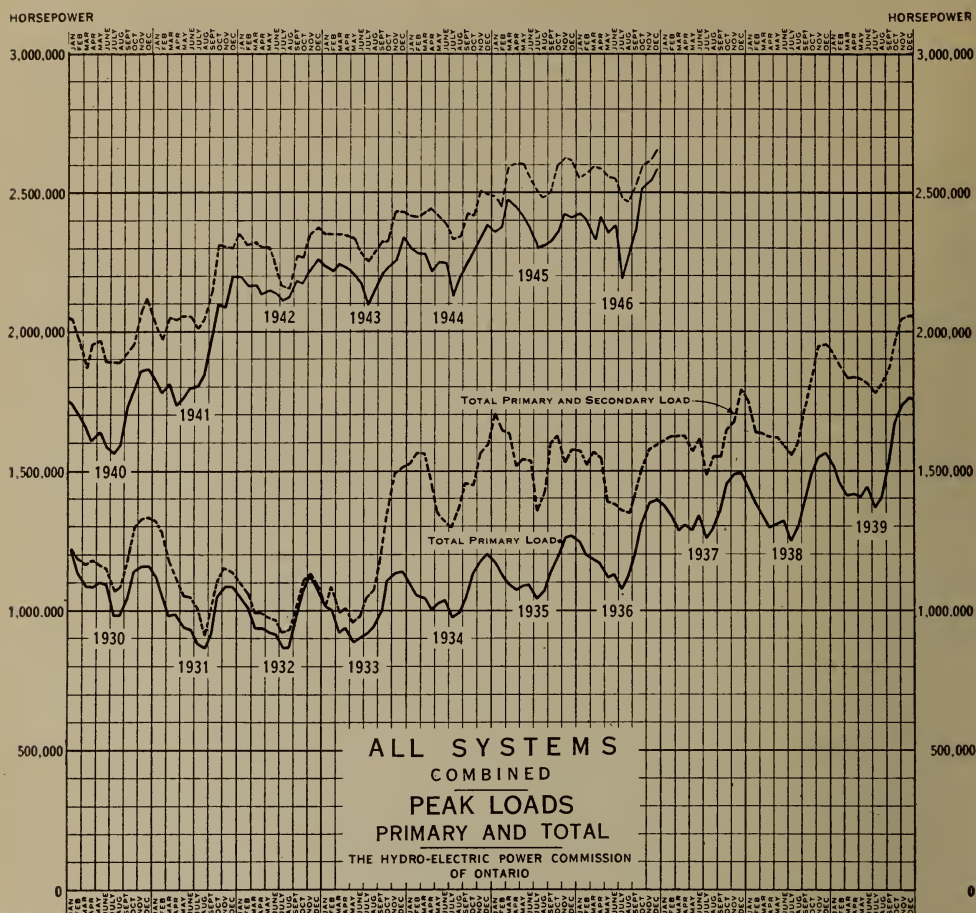
Power sources	Contract amount horsepower Oct. 31, 1946	Total purchased	
		1944-45 kilowatt-hours	1945-46 kilowatt-hours
SOUTHERN ONTARIO SYSTEM			
Canadian Niagara Power Co.	20,000	91,597,300	91,597,300
Department of Transport (Welland Ship Canal) ..		5,261,600	989,900
Gatineau Power Co.	340,000	1,472,365,460	1,507,401,600
Ottawa Valley Power Co.	108,000	327,486,250	382,040,850
Beauharnois Light, Heat and Power Co.	300,000	1,300,670,000	1,341,560,000
MacLaren-Quebec Power Co.	185,000	756,025,000	823,169,825
M. F. Beach Estate.	500	2,979,600	3,034,000
Rideau Power Co.	400	1,891,500	1,874,400
Campbellford Water and Light Commission.	800	4,478,900	2,345,700
Miscellaneous.		3,388,658	3,493,400
THUNDER BAY SYSTEM			
Kaministiquia Power Co.		31,788,480	14,963,520
Miscellaneous.		237,900	0
NORTHERN ONTARIO PROPERTIES			
Manitoulin Pulp Co.	800	1,876,800	2,547,200
Abitibi Power and Paper Co.		8,606,272	5,089,152
Miscellaneous.		993,500	0
Total purchased.	955,500	4,009,647,220	4,180,106,847

Power purchased, contract amount, 1946.	955,500 horsepower	
Maximum normal plant capacity, 1946.	1,725,000	"
Total available capacity generated and purchased, 1946.	2,680,500	"
Total available capacity generated and purchased, 1945.	2,672,000	"
Difference (increase).	8,500	"
Total energy purchased, 1946.	4,180,106,847 kilowatt-hours	
Total energy generated, 1946.	8,491,910,465	"
Total energy generated and purchased, 1946.	12,672,017,312	"
Total energy generated and purchased, 1945.	12,488,227,179	"
Difference (increase).	183,790,133	"

CAUTION: The figures for "Maximum normal plant capacity" reflect the capacity of the various plants under the most favourable conditions which can reasonably be considered as normal, taking into consideration turbine capacity as well as generator capacity, and also the net operating head and available water supply.

Owing, among other things, to changes in generating equipment due to wear and tear or the replacement of parts, also to changes in limitations governing water levels and effective net heads, the maximum normal plant capacity is not a fixed quantity but is one which must be revised from time to time.

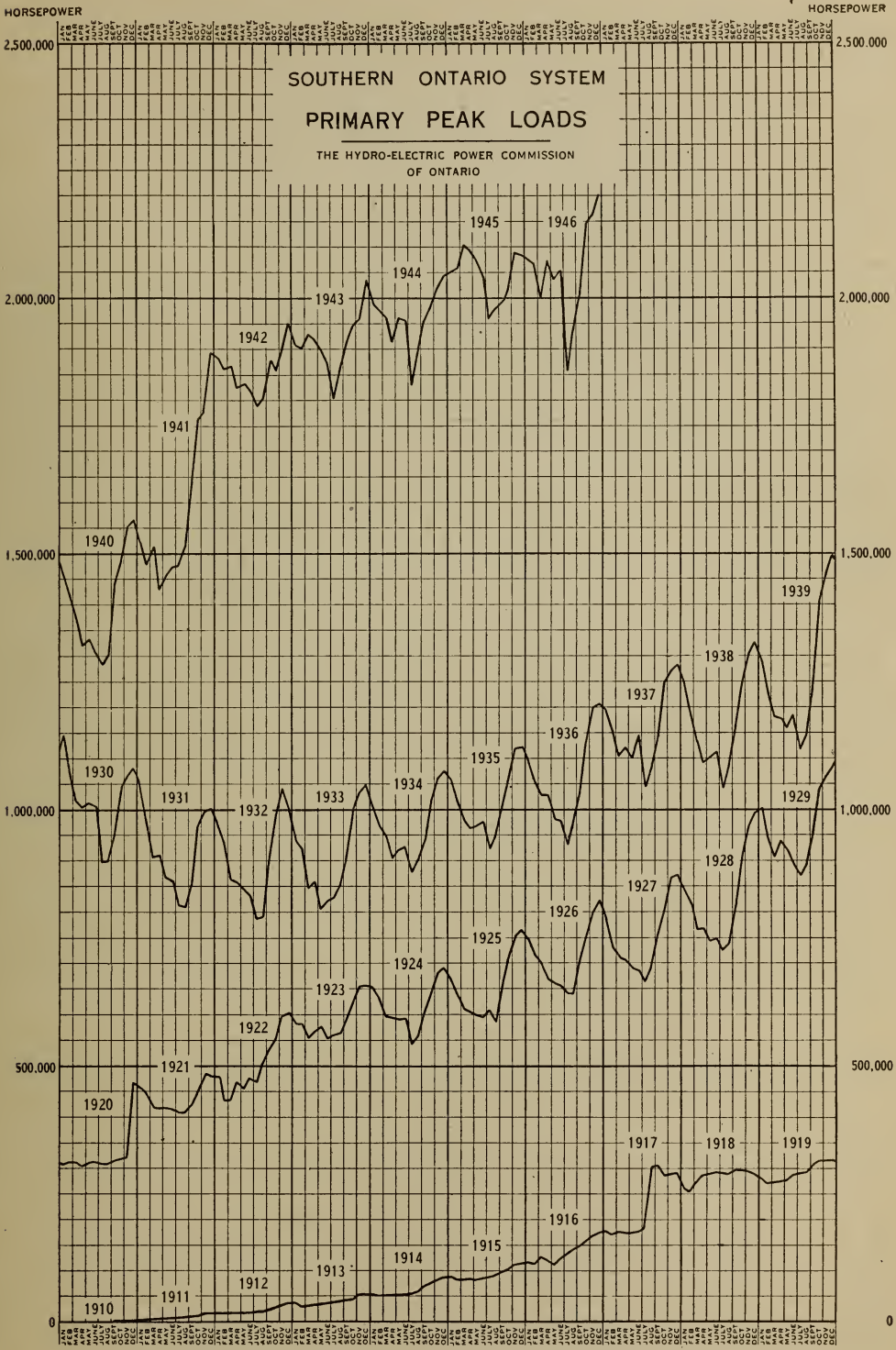
It is particularly important to bear in mind that the column headed "Maximum normal plant capacity" cannot be taken as an indication of the dependable capacity of the various plants; in some cases it is, but in many cases it is not. Chief among the factors which govern the maximum dependable capacity of an hydraulic power plant and which are not reflected in column headed "Maximum normal plant capacity" are abnormal variations in water supply and operating limitations encountered when plants are so situated on a given stream as to be affected by one another.



The total peak output on the Commission's combined systems was 2,625,000 horsepower. This exceeded the record output of the previous year by the small margin of 17,000 horsepower. The total energy output from all generated and purchased sources amounted to 12,672,017,312 kilowatt-hours, exceeding the previous year's output by 1.5 per cent.

The output for primary power purposes was 2,515,000 horsepower, exceeding all previous records for this class of power. Compared with the corresponding output in the previous year, when primary demands reached their highest levels for the war years, it shows an increase of 44,000 horsepower or 1.8 per cent. The energy output for primary power purposes dropped 1.4 per cent from 11,110,000,000 kilowatt-hours in 1945 to 10,951,000,000 kilowatt-hours in 1946. This drop in primary energy in contrast with the rise in peak demand reflects the effect of reduced demands during part of the year resulting from labour disputes.

The load figures quoted above represent loads actually carried. In interpreting them, it must be borne in mind that, owing to a deficiency in power resources, which became critical in October 1946, loads have been



severely curtailed in Southern Ontario. A comparison of potential power demands would show a somewhat greater increase than indicated by the above figures.

Details regarding the peak loads of the Southern Ontario and the Thunder Bay systems and of the several districts of the Northern Ontario Properties are given in the load curves in this section of the Report.

SOUTHERN ONTARIO SYSTEM

All power resources available to the Southern Ontario system were, for the most part, fully utilized throughout the year. On many days primary peak demands exceeded the system's resources and, as pointed out in the paragraphs above, the load figures which are quoted below for the Southern Ontario system, represent loads actually carried. Similar comments apply to their interpretation.

The maximum peak output on the system for both primary and secondary power was 2,193,000 horsepower, exceeding the corresponding output of the previous year by the small margin of 15,000 horsepower. The maximum output for primary power purposes was 2,147,000 horsepower as compared with 2,105,000 horsepower in the previous year, showing an increase of 2.0 per cent.

The total energy output of the Southern Ontario system for primary and secondary power rose 0.5 per cent as compared with the previous year. The output of energy classed as primary power and representing about 90 per cent of the total, dropped from 9,391,920,645 kilowatt-hours in the previous year to 9,213,016,177 kilowatt-hours, a decrease of 1.9 per cent.

On the rivers supplying the generating stations on the Georgian Bay and the Eastern Ontario divisions, good water conditions existed during the winter of 1945-46 but, following an early spring run-off, summer and fall water conditions were extremely low, with the result that on the whole the water supply for the year under review was the lowest encountered in several years. On the Ottawa river about average flow was maintained throughout the year. Only minor trouble from ice conditions was encountered at some of the smaller generating stations.

During the major portion of the year special power purchases were arranged with the Quebec Power Companies for such power as the companies had available in excess of their standing agreements with the Commission. Under a standing arrangement with the Department of Transport approximately 4,000 horsepower was purchased from the Department during part of the non-navigation period on the Welland Ship canal.

To ensure continuity of service on the Georgian Bay division, the arrangement of the previous year with the Defence Industries, Limited, for the use of the Nobel steam-turbo unit on an emergency standby basis was continued through the 1945-46 winter period. Upon approach of the high summer load period characteristic of this division due to summer resort load, and the prospects of low water supply to the hydraulic generating stations

within the Georgian Bay division, arrangements were made on May 17 to acquire the steam-turbo unit on a rental basis. Notwithstanding the reinforcement of the Georgian Bay division's resources by the Oshawa-Barrie tie line with the Eastern Ontario division early in July, the operation of the Nobel unit furnished valuable and essential assistance in the late summer and early fall months.

New lines and distributing stations were placed in service during the year to take care of increasing power demands in many areas. The most important of these was the general co-ordination and strengthening of transmission lines and facilities in the eastern portion of the system to improve service at Cornwall and to provide additional capacity for the Georgian Bay division. Also, to improve and control voltage in the western section of the Southern Ontario system, a 40,000-kva condenser and associated equipment, including two 20,000-kva transformer banks, were placed in service at the Essex transformer station early in the year. Several new distributing stations were placed in service involving an addition of nearly 20,000 kva in transformer capacity and the capacity of many distributing stations was increased. At three transformer stations, new capacity totalling 65,000 kva was also added.

SUMMATION OF PEAK LOADS IN HORSEPOWER AS SUPPLIED TO URBAN MUNICIPAL UTILITIES AND FOR RURAL HYDRO SERVICE, SHOWING TREND OF POWER DEMANDS 1945-1946

System	Total of peak loads in horsepower		Net increase in horsepower	Number of utilities with			Total
	July to Dec. 1945	July to Dec. 1946		Decreases	Increases	No change	

URBAN MUNICIPAL UTILITIES

Southern Ontario...	1,378,796	1,513,238	134,442	13	293	1	307
Thunder Bay...	47,251	48,946	1,695	1	5	0	6
Northern Ontario Properties.....	20,868	24,269	3,401	0	16	1	17

RURAL HYDRO SERVICE

Southern Ontario...	180,929	220,387	39,458	1	83	0	84
Thunder Bay.....	1,048	1,355	307	0	1	0	1
Northern Ontario Properties.....	3,337	3,756	419	1	3	0	4
Total, Rural Service.	185,314	225,498	40,184	2	87	0	89

NOTE: The yearly peak demands of the individual municipal Hydro utilities do not all occur during the same month of the year nor, for any given municipality, do they always occur in the same month in successive years; in nearly all cases however the yearly peak occurs during the second half of the calendar year. For this reason a comparison of the peaks occurring during the second half of the year as shown in the tables of this Section shows most satisfactorily the general trend of the local loads. The loads given above for Rural Hydro Service are a summation of the loads in the various operational districts and are similarly obtained.

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1945-1946

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1945	July to Dec., 1946	Decrease	Increase
Acton.....	25	1,918.5	2,252.2		333.7
Agincourt.....	25	308.4	345.3		36.9
Ailsa Craig.....	25	179.1	213.8		34.7
Alexandria.....	60	485.5	467.5	18.0	
Alliston.....	60	581.4	728.9		147.5
Almonte.....	60	435.7	859.2		423.5
Alvinston.....	25	177.9	198.0		20.1
Amherstburg.....	25	1,330.6	1,631.9		301.3
Ancaster Twp.—Voted Area.....	25	618.6	671.4		52.8
Apple Hill.....	60	66.6	67.8		1.2
Arkona.....	25	84.2	101.9		17.7
Arnprior.....	60	1,546.0	1,867.6		321.6
Arthur.....	60	231.9	280.4		48.5
Athens.....	60	155.1	196.1		41.0
Aurora.....	25	1,674.0	1,938.6		264.6
Aylmer.....	25	1,249.7	1,389.7		140.0
Ayr.....	25	315.5	373.6		58.1
Baden.....	25	678.1	655.6	22.5	
Bala.....	60	516.1	536.2		20.1
Barrie.....	60	5,333.8	6,092.5		758.7
Bath.....	60	59.9	82.6		22.7
Beachville.....	25	811.7	850.9		39.2
Beamsville.....	25	685.8	740.6		54.8
Beaverton.....	60	398.0	441.0		43.0
Beeton.....	60	129.1	165.7		36.6
Belle River.....	25	255.9	341.9		86.0
Belleville.....	60	9,120.0	9,671.6		551.6
Blenheim.....	25	851.5	1,139.4		287.9
Bloomfield.....	60	183.9	202.6		18.7
Blyth.....	25	196.4	196.1	0.3	
Bolton.....	25	279.6	362.9		83.3
Bothwell.....	25	200.5	237.3		36.8
Bowmanville.....	60	3,579.7	3,948.5		368.8
Bradford.....	60	335.5	514.2		178.7
Braeside.....	60	331.1	274.8	56.3	
Brampton.....	25	3,799.6	4,172.2		372.6
Brantford.....	25	23,912.4	26,510.0		2,597.6
Brantford Twp.—Voted Area.....	25	2,059.2	2,590.9		531.7
Brechin.....	60	67.8	88.5		20.7
Bridgeport.....	25	300.6	344.9		44.3
Brigden.....	25	116.2	177.5		61.3
Brighton.....	60	651.7	802.1		150.4
Brockville.....	60	6,021.4	9,389.5		3,368.1
Bronte.....	66 $\frac{2}{3}$	249.3	312.3		63.0
Brussels.....	25	248.5	336.7		88.2
Burford.....	25	321.6	392.8		71.2
Burgessville.....	25	61.8	125.6		63.8
Burlington.....	66 $\frac{2}{3}$	2,281.6	2,393.0		111.4
Burlington Beach.....	25 & 66 $\frac{2}{3}$	665.9	759.6		93.7
Caledonia.....	25	534.8	613.3		78.5

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1945-1946—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1945	July to Dec., 1946	Decrease	Increase
Campbellville.....	25	59.6	81.0		21.4
Cannington.....	60	298.4	378.1		79.7
Cardinal.....	60	517.9	537.6		19.7
Carleton Place.....	60	2,236.8	2,422.9		186.1
Cayuga.....	25	201.7	283.9		82.2
Chatham.....	25	9,317.9	10,058.7		740.8
Chatsworth.....	60	158.3	181.3		23.0
Chesley.....	60	682.2	846.2		164.0
Chesterville.....	60	385.7	463.1		77.4
Chippawa.....	25	472.1	505.4		33.3
Clifford.....	25	142.6	160.2		17.6
Clinton.....	25	856.2	962.2		106.0
Cobden.....	60	165.7	210.0		44.3
Cobourg.....	60	2,618.4	2,954.7		336.3
Colborne.....	60	346.2	380.8		34.6
Coldwater.....	60	225.1	231.4		6.3
Collingwood.....	60	2,965.8	3,272.1		306.3
Comber.....	25	208.6	238.6		30.0
Cookstown.....	60	124.1	153.1		29.0
Cottam.....	25	134.0	137.3		3.3
Courtright.....	25	69.8	81.8		12.0
Creemore.....	60	216.5	256.6		40.1
Dashwood.....	25	152.4	157.8		5.4
Delaware.....	25	101.7	107.6		5.9
Delhi.....	25	988.2	1,041.8		53.6
Deseronto.....	60	332.4	380.5		48.1
Dorchester.....	25	166.9	176.3		9.4
Drayton.....	25	186.2	189.6		3.4
Dresden.....	25	648.5	666.2		17.7
Drumbo.....	25	133.2	155.5		22.3
Dublin.....	25	66.5	72.8		6.3
Dundalk.....	60	304.1	340.7		36.6
Dundas.....	25	3,579.7	3,774.7		195.0
Dunnville.....	25	1,889.1	2,089.0		199.9
Durham.....	60	511.9	601.2		89.3
Dutton.....	25	327.2	367.1		39.9
East York Twp.—Voted Area.....	25	13,261.5	15,471.6		2,210.1
Elmira.....	25	1,598.2	1,922.4		324.2
Elmvale.....	60	234.6	306.2		71.6
Elmwood.....	60	93.3	134.5		41.2
Elora.....	25	554.7	622.5		67.8
Embro.....	25	185.5	228.3		42.8
Erieau.....	25	288.7	335.4		46.7
Erie Beach.....	25	51.5	62.7		11.2
Erin.....	60	153.4	175.0		21.6
Essex.....	25	711.8	888.8		177.0
Etobicoke Twp.—Voted Area.....	25	12,333.9	15,860.9		3,527.0
Exeter.....	25	987.7	1,078.9		91.2
Fergus.....	25	1,609.2	1,928.8		319.6
Finch.....	60	139.7	159.3		19.6

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1945-1946—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1945	July to Dec., 1946	Decrease	Increase
Flesherton.....	60	103.8	164.0	.....	60.2
Fonthill.....	25	277.2	337.9	.....	60.7
Forest.....	25	746.6	785.2	.....	38.6
Forest Hill.....	25	10,161.5	10,880.7	.....	719.2
Frankford.....	60	210.2	270.0	.....	59.8
Galt.....	25	12,998.4	14,469.5	.....	1,471.1
Georgetown.....	25	2,426.3	2,796.9	.....	370.6
Glencoe.....	25	260.3	294.6	.....	34.3
Goderich.....	25	1,983.9	2,178.7	.....	194.8
Grand Valley.....	60	218.0	255.8	.....	37.8
Granton.....	25	74.7	97.4	.....	22.7
Gravenhurst.....	60	1,626.6	1,836.5	.....	209.9
Grimsby.....	25	1,218.5	1,254.2	.....	35.7
Guelph.....	25	13,834.1	15,626.0	.....	1,791.9
Hagersville.....	25	1,326.3	1,425.2	.....	98.9
Hamilton.....	25 & 66 $\frac{2}{3}$	173,975.5	181,227.8	.....	7,252.3
Hanover.....	60	1,625.0	1,858.4	.....	233.4
Harriston.....	25	563.5	675.8	.....	112.3
Harrow.....	25	829.7	840.5	.....	10.8
Hastings.....	60	186.5	244.9	.....	58.4
Havelock.....	60	251.1	300.2	.....	49.1
Hensall.....	25	303.7	346.0	.....	42.3
Hepworth.....	60	50.7	44.6	6.1	.....
Hespeler.....	25	3,233.6	3,550.4	.....	316.8
Highgate.....	25	139.9	147.1	.....	7.2
Holstein.....	60	23.3	26.2	.....	2.9
Humberstone.....	25	754.7	889.5	.....	134.8
Huntsville.....	60	1,428.1	1,715.0	.....	286.9
Ingersoll.....	25	3,605.8	3,890.0	.....	284.2
Iroquois.....	60	368.8	413.7	.....	44.9
Jarvis.....	25	225.7	239.7	.....	14.0
Kemptville.....	60	466.0	588.6	.....	122.6
Kincardine.....	60	932.6	1,081.6	.....	149.0
Kingston.....	60	18,523.3	20,575.8	.....	2,052.5
Kingsville.....	25	952.3	1,011.9	.....	59.6
Kirkfield.....	60	27.0	27.0	.....	.....
Kitchener.....	25	31,292.6	36,415.6	.....	5,123.0
Lakefield.....	60	600.5	635.1	.....	34.6
Lambeth.....	25	206.2	249.3	.....	43.1
Lanark.....	60	136.7	158.2	.....	21.5
Lancaster.....	60	66.4	87.7	.....	21.3
LaSalle.....	25	386.6	445.3	.....	58.7
Leamington.....	25	2,664.6	2,984.3	.....	319.7
Lindsay.....	60	4,044.1	4,479.4	.....	435.3
Listowel.....	25	1,685.0	1,840.5	.....	155.5

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1945-1946—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1945	July to Dec., 1946	Decrease	Increase
London.....	25	49,128.5	55,301.6	.....	6,173.1
London Twp.—Voted Area.....	25	823.7	879.2	.....	55.5
Long Branch.....	25	2,024.8	2,370.2	.....	345.4
Lucan.....	25	266.5	341.1	.....	74.6
Lucknow.....	60	450.7	575.6	.....	124.9
Lynden.....	25	145.8	154.7	.....	8.9
MacTier.....	60	140.7	189.5	.....	48.8
Madoc.....	60	264.4	386.4	.....	122.0
Markdale.....	60	241.4	292.8	.....	51.4
Markham.....	25	483.6	532.2	.....	48.6
Marmora.....	60	189.1	216.9	.....	27.8
Martintown.....	60	53.7	83.8	.....	30.1
Maxville.....	60	155.4	171.4	.....	16.0
Meaford.....	60	949.4	1,148.6	.....	199.2
Merlin.....	25	171.4	173.4	.....	2.0
Merritton.....	25	11,266.6	10,592.7	673.9	.....
Midland.....	60	5,179.5	4,896.7	282.8	.....
Mildmay.....	60	209.6	244.7	.....	35.1
Millbrook.....	60	152.3	161.9	.....	9.6
Milton.....	25	1,669.6	1,901.6	.....	232.0
Milverton.....	25	557.9	562.3	.....	4.4
Mimico.....	25	3,968.5	4,520.1	.....	551.6
Mitchell.....	25	904.5	976.9	.....	72.4
Moorefield.....	25	121.1	124.0	.....	2.9
Morrisburg.....	60	419.6	550.9	.....	131.3
Mount Brydges.....	25	149.7	158.4	.....	8.7
Mount Forest.....	60	794.3	913.6	.....	119.3
Napanee.....	60	1,730.0	2,007.0	.....	277.0
Neustadt.....	60	48.1	48.6	.....	0.5
Newburgh.....	60	63.9	98.4	.....	34.5
Newbury.....	25	47.8	60.6	.....	12.8
Newcastle.....	60	291.8	331.2	.....	39.4
New Hamburg.....	25	775.6	886.7	.....	111.1
Newmarket.....	25	2,363.4	2,575.4	.....	212.0
New Toronto.....	25	12,130.6	13,189.1	.....	1,058.5
Niagara Falls.....	25	13,589.3	14,401.9	.....	812.6
Niagara-on-the-Lake.....	25	1,182.3	1,224.0	.....	41.7
North York Twp.—Voted Area.....	25	13,272.4	17,365.2	.....	4,092.8
Norwich.....	25	565.7	650.9	.....	85.2
Norwood.....	60	223.0	306.9	.....	83.9
Oakville.....	25 & 66 $\frac{2}{3}$	1,938.3	2,316.1	.....	377.8
Oil Springs.....	25	215.8	244.6	.....	28.8
Omeme.....	60	257.5	336.2	.....	78.7
Orangeville.....	60	1,025.1	1,304.0	.....	278.9
Orono.....	60	150.0	170.2	.....	20.2
Oshawa.....	60	19,805.6	22,902.1	.....	3,096.5
Ottawa.....	60	42,978.2	45,816.6	.....	2,838.4
Otterville.....	25	149.7	170.1	.....	20.4
Owen Sound.....	60	7,625.3	9,179.0	.....	1,553.7
Paisley.....	60	194.2	227.9	.....	33.7

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1945-1946—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1945	July to Dec., 1946	Decrease	Increase
Palmerston.....	25	729.3	755.6	.....	26.3
Paris.....	25	2,133.7	2,658.2	.....	524.5
Parkhill.....	25	334.8	373.7	.....	38.9
Penetanguishene.....	60	1,266.1	1,422.9	.....	156.8
Perth.....	60	2,075.1	2,402.1	.....	327.0
Peterborough.....	60	18,091.1	23,821.7	.....	5,730.6
Petrolia.....	25	1,299.0	1,268.2	30.8	.....
Pictou.....	60	1,734.7	2,088.5	.....	353.8
Pjattsville.....	25	168.2	229.9	.....	61.7
Point Edward.....	25	1,725.2	1,955.8	.....	230.6
Port Carling.....	60	385.1	466.2	.....	81.1
Port Colborne.....	25	2,698.3	2,900.1	.....	201.8
Port Credit.....	25	1,369.7	1,487.4	.....	117.7
Port Dalhousie.....	25	1,267.8	1,362.9	.....	95.1
Port Dover.....	25	709.8	890.1	.....	180.3
Port Elgin.....	60	794.8	881.0	.....	86.2
Port Hope.....	60	3,167.8	3,321.2	.....	153.4
Port McNicoll.....	60	135.6	163.4	.....	27.8
Port Perry.....	60	403.2	482.4	.....	79.2
Port Rowan.....	25	152.5	174.2	.....	21.7
Port Stanley.....	25	1,406.8	1,583.8	.....	177.0
Prescott.....	60	1,744.1	1,724.5	19.6	.....
Preston.....	25	4,646.1	5,248.8	.....	602.7
Priceville.....	60	10.0	18.0	.....	8.0
Princeton.....	25	165.5	215.5	.....	50.0
Queenston.....	25	169.0	190.9	.....	21.9
Renfrew.....	60	309.1	1,386.1	.....	1,077.0
Richmond.....	60	88.5	123.7	.....	35.2
Richmond Hill.....	25	726.5	899.5	.....	173.0
Ridgetown.....	25	815.8	921.2	.....	105.4
Ripley.....	60	174.1	228.3	.....	54.2
Riverside.....	25	1,922.9	2,185.3	.....	262.4
Rockwood.....	25	193.3	213.9	.....	20.6
Rodney.....	25	209.8	230.7	.....	20.9
Rosseau.....	60	52.8	70.3	.....	17.5
Russell.....	60	112.1	141.4	.....	29.3
St. Catharines.....	25 & 66 $\frac{2}{3}$	28,329.4	33,395.0	.....	5,065.6
St. Clair Beach.....	25	145.5	144.4	1.1	.....
St. George.....	25	244.2	263.5	.....	19.3
St. Jacobs.....	25	408.2	420.9	.....	12.7
St. Marys.....	25	1,880.3	2,358.9	.....	478.6
St. Thomas.....	25	9,454.4	10,542.9	.....	1,088.5
Sarnia.....	25	8,809.2	9,519.4	.....	710.2
Scarborough Twp.....	25	7,081.9	8,345.4	.....	1,263.5
Seaforth.....	25	1,268.1	1,411.8	.....	143.7
Shelburne.....	60	345.2	469.1	.....	123.9
Simcoe.....	25	3,327.1	3,735.1	.....	408.0
Smiths Falls.....	60	3,491.8	4,176.2	.....	684.4
Smithville.....	25	231.0	421.2	.....	190.2
Southampton.....	60	779.9	861.5	.....	81.6

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1945-1946—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1945	July to Dec., 1946	Decrease	Increase
Springfield.....	25	107.5	118.6	.....	11.1
Stamford Twp.—Voted Area.....	25	4,138.7	4,749.3	.....	610.6
Stayner.....	60	379.8	443.3	.....	63.5
Stirling.....	60	450.3	522.6	.....	72.3
Stoney Creek.....	25	372.2	483.9	.....	111.7
Stouffville.....	25	464.1	644.5	.....	180.4
Stratford.....	25	8,703.0	9,965.2	.....	1,262.2
Strathroy.....	25	1,810.7	1,971.6	.....	160.9
Streetsville.....	25	284.8	314.6	.....	29.8
Sunderland.....	60	117.1	146.1	.....	29.0
Sutton.....	25	628.7	795.9	.....	167.2
Swansea.....	25	4,193.7	4,273.4	.....	79.7
Tara.....	60	183.9	211.9	.....	28.0
Tavistock.....	25	788.7	860.4	.....	71.7
Tecumseh.....	25	561.9	703.0	.....	141.1
Teeswater.....	60	237.9	289.6	.....	51.7
Thamesford.....	25	333.5	367.0	.....	33.5
Thamesville.....	25	315.9	359.0	.....	43.1
Thedford.....	25	160.9	196.5	.....	35.6
Thornbury.....	60	115.3	241.3	.....	126.0
Thorndale.....	25	117.6	153.0	.....	35.4
Thornton.....	60	53.4	64.4	.....	11.0
Thorold.....	25	3,858.2	4,120.6	.....	262.4
Tilbury.....	25	1,483.8	1,313.7	170.1	.....
Tillsonburg.....	25	2,058.9	2,351.9	.....	293.0
Toronto.....	25	442,134.0	465,521.4	.....	23,387.4
Toronto Twp.—Voted Area.....	25	4,626.5	6,033.0	.....	1,406.5
Tottenham.....	60	174.1	174.8	.....	0.7
Trafalgar Twp. V.A.....	25 & 66 $\frac{2}{3}$	867.7	1,024.3	.....	156.6
Trenton.....	60	6,104.6	6,926.3	.....	821.7
Tweed.....	60	418.5	455.4	.....	36.9
Uxbridge.....	60	491.7	576.3	.....	84.6
Victoria Harbour.....	60	128.4	126.7	1.7	.....
Walkerton.....	60	1,246.9	1,412.7	.....	165.8
Wallaceburg.....	25	5,501.3	5,954.1	.....	452.8
Wardsville.....	25	68.9	89.7	.....	20.8
Warkworth.....	60	120.5	118.1	2.4	.....
Waterdown.....	25	394.5	419.3	.....	24.8
Waterford.....	25	600.3	663.5	.....	63.2
Waterloo.....	25	6,724.5	8,567.0	.....	1,842.5
Watford.....	25	459.5	525.5	.....	66.0
Waubauskene.....	60	188.1	272.1	.....	84.0
Welland.....	25	12,393.3	13,445.7	.....	1,052.4
Wellesley.....	25	162.2	206.6	.....	44.4
Wellington.....	60	442.7	524.3	.....	81.6
West Lorne.....	25	322.6	581.0	.....	258.4
Weston.....	25	5,782.8	7,062.3	.....	1,279.5
Westport.....	60	147.0	174.0	.....	27.0
Wheatley.....	25	251.3	355.4	.....	104.1
Whitby.....	60	1,922.8	2,096.8	.....	174.0

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1945-1946—Concluded

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1945	July to Dec., 1946	Decrease	Increase
Warton.....	60	508.4	602.6	.....	94.2
Williamsburg.....	60	133.4	168.6	.....	35.2
Winchester.....	60	485.2	620.2	.....	135.0
Windermere.....	60	121.8	134.0	.....	12.2
Windsor.....	25	55,807.5	61,039.3	.....	5,231.8
Wingham.....	60	910.3	1,206.8	.....	296.5
Woodbridge.....	25	843.2	994.5	.....	151.3
Woodstock.....	25	9,964.8	10,218.1	.....	253.3
Woodville.....	60	116.0	126.2	.....	10.2
Wyoming.....	25	141.4	181.7	.....	40.3
York Township.....	25	27,703.7	31,191.7	.....	3,488.0
Zurich.....	25	165.7	197.4	.....	31.7

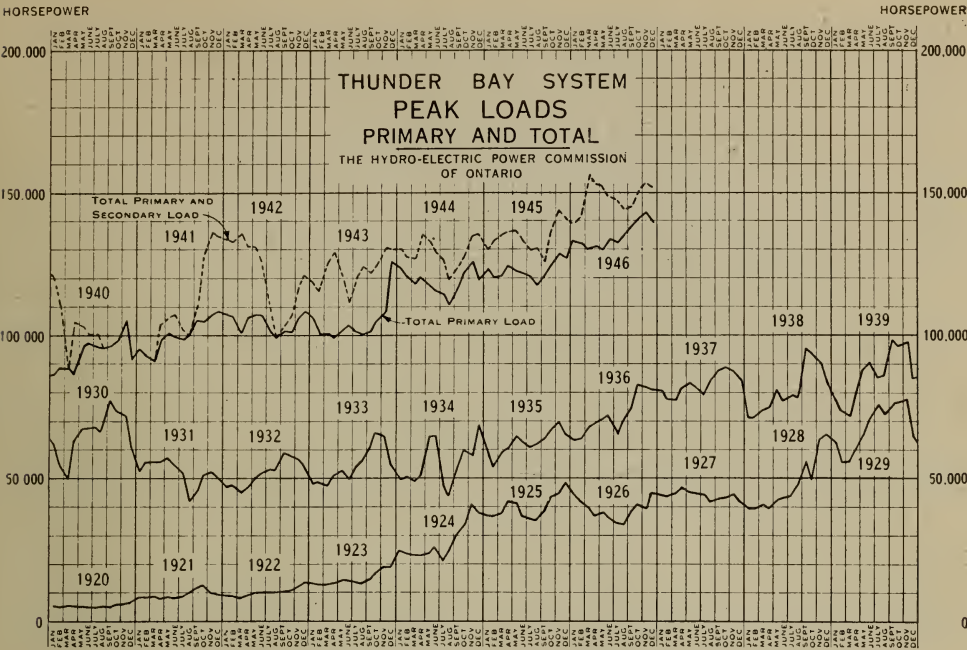
SOUTHERN ONTARIO SYSTEM—LOADS OF NEW MUNICIPALITIES

Municipality	Frequency cycles	Date connected	Load in horsepower		Change in load	
			Initial	July to Dec., 1946	Decrease	Increase
Bobcaygeon.....	60	July 1, 1946	90.4	90.4	.....	.....
Parry Sound.....	60	Aug. 1, 1946	517.6	1,157.8	.....	640.2

THUNDER BAY SYSTEM

The Alexander and the Cameron Falls generating stations on the Nipigon river were operated in parallel with the generating station of the Kaministiquia Power Co., a subsidiary of the Abitibi Power and Paper Co., throughout the year. During the year these resources supplied a maximum of 156,568 horsepower to the Thunder Bay system, and a total of 829,547,720 kilowatt-hours of which 14,963,520 kilowatt-hours were delivered from the Kaministiquia Power Company station.

The maximum primary peak load on the Thunder Bay system, which includes power delivery to the Rainy River district of the Northern Ontario Properties, was 141,421 horsepower as compared with 126,206 horsepower in the previous year, an increase of 12.1 per cent. The year's primary energy requirements totalled 709,424,420 kilowatt-hours, exceeding that of the previous year by 11.5 per cent. Surplus energy to the amount of 120,123,300 kilowatt-hours was supplied for electric boiler operation at the paper companies in Port Arthur.

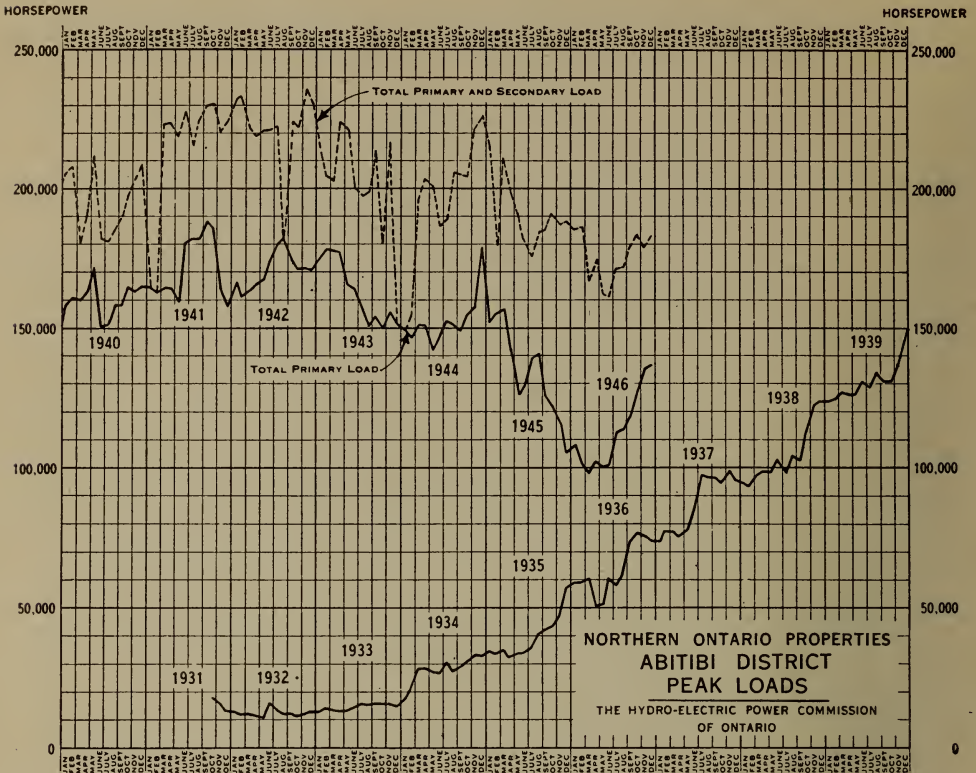


THUNDER BAY SYSTEM—LOADS OF MUNICIPALITIES—1945-1946

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1945	July to Dec., 1946	Decrease	Increase
Atikokan Townsite.....	60	133.2	223.9	.....	90.7
Beardmore Townsite.....	60	143.2	204.1	.....	60.9
Fort William.....	60	19,623.3	21,085.8	.....	1,462.5
Geraldton Townsite.....	60	676.8	859.5	.....	182.7
Nipigon Twp.—Voted Area.....	60	330.9	398.6	.....	67.7
Port Arthur.....	60	26,343.9	26,173.7	170.2	.....

NORTHERN ONTARIO PROPERTIES

The Northern Ontario Properties, comprising the operating districts of Abitibi, Timiskaming, Sudbury, Nipissing, Manitoulin, Patricia and Rainy River, are served by the Commission on behalf of the Province of Ontario. The majority of the power distributed in these areas is used in the mining and refining of gold and nickel. During the year initial service, or a resumption of service suspended for the war, was made to sixteen properties, fourteen of these being mines. While the average of primary demands during the year in Northern Ontario was below that of the previous year, the current year's trend in primary demands was upwards, rising from a total of 212,700 horsepower in October 1945 to 226,700 horsepower in October, 1946, an increase of 6.6 per cent.



Abitibi District

The primary peak load of the Abitibi district receded sharply from the October 1945 demand to a minimum in early summer from which point all losses sustained earlier in the year were more than recovered by the end of October 1946. Comparing the primary loads of 122,700 horsepower at end of October 1945 and 128,000 horsepower at end of October 1946, there was an increase of 4.3 per cent, all of which resulted from greater activity in the mining of gold. The recession in the summer was due to the reduced demands of the International Nickel Company at their Copper Cliff properties.

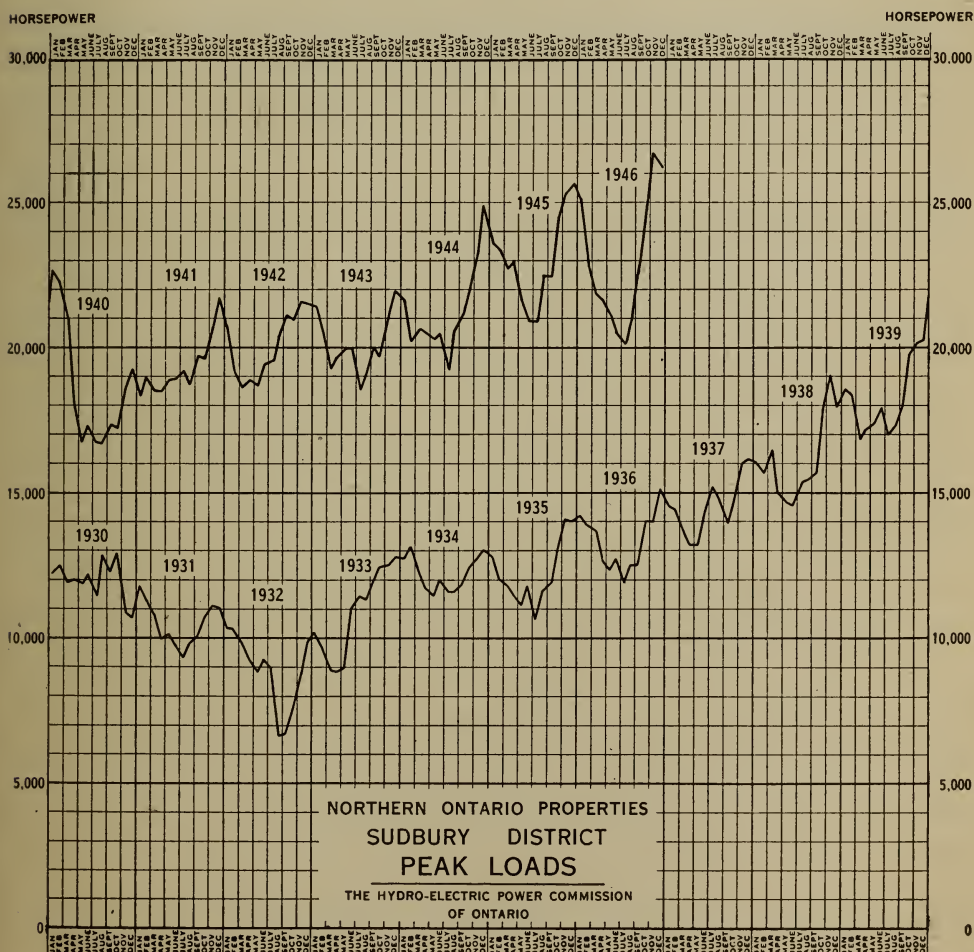
Water conditions during the 1945-46 winter period were favourable and were followed by an early spring break-up about one month ahead of usual time. However, the late summer and fall seasons were exceptionally dry and the storage reservoirs were much below normal level on entering the 1945-46 winter period.

Production at the Canyon plant during the year totalled 919,932,100 kilowatt-hours, of which 585,129,650 kilowatt-hours were for primary load purposes, 327,759,610 kilowatt-hours for electric generation of steam at the paper mills of the Abitibi Power and Paper Company, and the balance of 7,042,840 kilowatt-hours was transferred to the Timiskaming district.

Timiskaming District

The total peak load of the Timiskaming district, all of which was for primary distribution, was 52,681 horsepower. Energy consumption during the year totalled 255,465,233 kilowatt-hours, of which 248,422,393 kilowatt-hours were produced from the generating stations within the district, the balance being supplied from the Abitibi district. Since the Commission acquired the properties of the Northern Ontario Power Company, the load of which has been incorporated in the Commission's statistics from March 1945, a steady growth has taken place. The October 1946 peak load exceeded that of October 1945 by 8.0 per cent.

A large amount of work on the rehabilitation of generating stations and transmission lines was carried out in this district. Reduced output from the generating stations was made up by transfer from the Abitibi district. During a period of low water near the end of the year, transfer from the Abitibi district was increased in order to conserve water storage in the Timiskaming district for the coming winter period.



Sudbury District

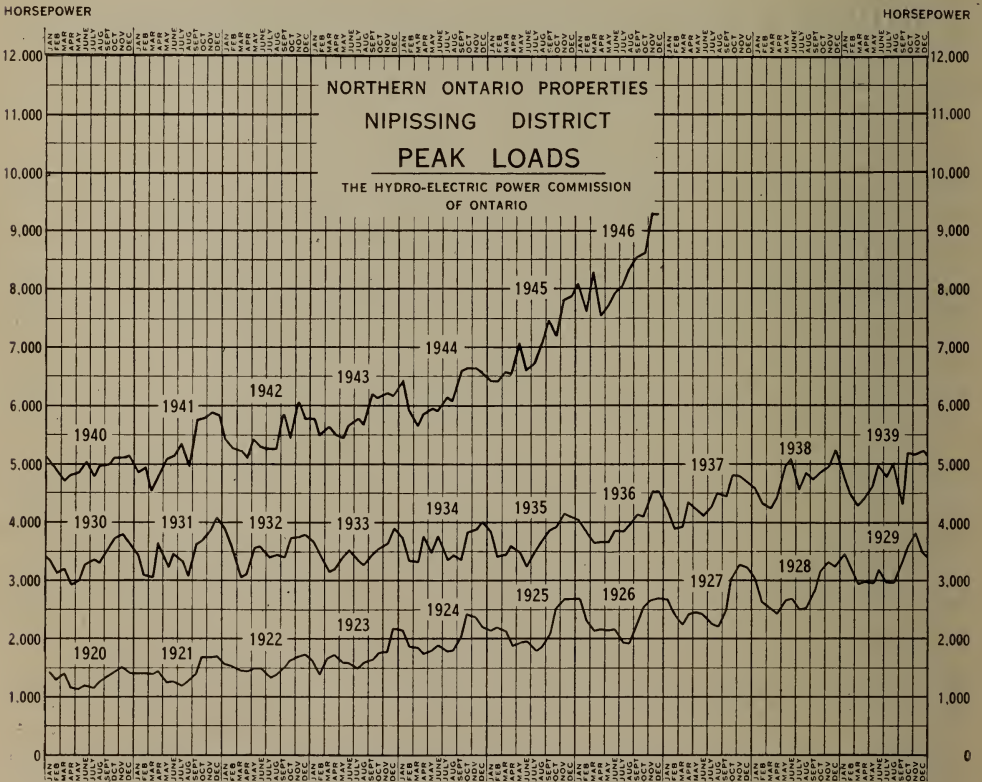
The total load of the Sudbury district rose from 24,598 horsepower in October 1945 to 25,074 horsepower in October 1946, an increase of 1.9 per cent. The total energy consumption for the year was 4.3 per cent smaller. All power in this district was for primary distribution.

Water conditions in the Sudbury district from the commencement of the year to the late summer of 1946 were favourable. The remainder of the year was extremely dry and water storages as of October 31, 1946 were much below their usual levels for this period of the year.

Except during the spring and early summer, the river flow and water storage available were insufficient to generate the load requirements of this district plus the shortages in the Nipissing district which is operated in parallel with the Sudbury district. Consequently, a considerable quantity of power and energy was purchased from the Sturgeon Falls plant of the Abitibi Power and Paper Company. During the year, 5,089,152 kilowatt-hours were purchased.

Nipissing District

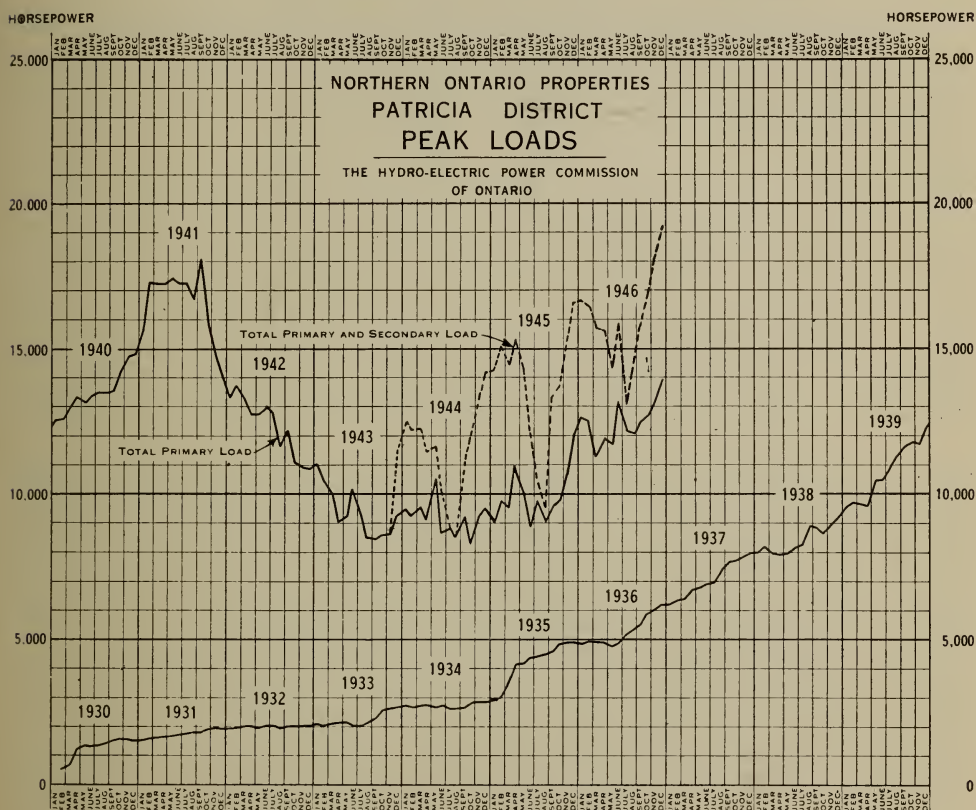
The Nipissing district peak load was 8,619 horsepower in October 1946. Compared with the peak load of the previous October, it shows an increase of 19.6 per cent. Energy consumption for the year was 17.9 per cent greater.



Water conditions in this district, although favourable early in the year, were, on the average over the whole year, below normal. Generating capacity within this district was insufficient to meet the district load requirements. During 1946 the shortage of approximately 13,525,000 kilowatt-hours was supplied from the Sudbury district resources.

Manitoulin District

The load of the Manitoulin district, which is supplied by purchase from the Manitoulin Pulp Company, rose from a peak load in October 1945 of 723 horsepower to 890 horsepower in October 1946, an increase of 23.2 per cent. The year's energy requirements increased 35.7 per cent.



Patricia District

The Patricia district's primary peak loads in October 1945 and October 1946 were 9,866 horsepower and 12,721 horsepower, respectively, showing an increase of 28.9 per cent. The majority of this increase resulted from increased taking of the gold mines in this district; service to three new mines being added during the year and service resumed to one mine, suspended for the war. Exclusive of primary power, 19 905,000 kilowatt-hours were supplied to four mining companies for the operation of electric boilers during the year.

Rainy River District

Power for the Rainy River district is purchased from the Thunder Bay system at cost. The load of this district is included in the load statistics of the Thunder Bay system primary load. During the year the average of the monthly peak loads supplied to the Rainy River district was 17,705 horsepower, being 5 per cent less than that supplied in the previous year.

NORTHERN ONTARIO PROPERTIES—LOAD OF MUNICIPALITIES—1945-1946

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1945	July to Dec., 1946	Decrease	Increase
ABITIBI DISTRICT					
Hislop Townsite.....	25	48.5	58.9	.....	10.4
Kearns Townsite.....	25	112.3	149.7	.....	37.4
King Kirkland Townsite.....	25	40.6	50.1	.....	9.5
Matachewan Townsite.....	25	235.0	245.8	.....	10.8
Matheson.....	25	138.8	184.4	.....	45.6
Mooretown.....	25	49.1	69.4	.....	20.3
Ramore.....	25	43.8	58.4	.....	14.6
SUDBURY DISTRICT					
Capreol.....	60	365.3	671.7	.....	306.4
Sudbury.....	60	12,683.1	13,828.7	.....	1,145.6
NIPISSING DISTRICT					
Callander.....	60	119.6	140.6	.....	21.0
Nipissing.....	60	3.0	3.0	.....	.....
North Bay.....	60	6,031.5	7,258.6	.....	1,227.1
Powassan.....	60	148.9	191.4	.....	42.5
PATRICIA DISTRICT					
Cottage Cove.....	60	71.8	155.5	.....	83.7
Hudson.....	60	105.2	138.6	.....	33.4
Red Lake Townsite.....	60	229.3	541.3	.....	312.0
Sioux Lookout.....	60	442.2	523.3	.....	81.1

MAINTENANCE OF THE SYSTEMS

During the war years much desirable maintenance work was necessarily deferred and only such work was undertaken as was essential to maintain the standard of service required for the expanded war loads. With the restoration of the maintenance staff to prewar strength, fair progress was made during 1946 in catching up on deferred maintenance work. Progress however was greatly handicapped by the short supply of equipment and materials, and the difficulties of releasing any part of the overburdened plant for repairs.

Turbines

At the power houses, inspection and routine maintenance was carried out on all turbines, generators and auxiliary equipment. During the year, seven turbines of 10,000 horsepower, or greater, and ten turbines under 10,000 horsepower, were completely dismantled and thoroughly overhauled. Work on one of the larger units was not entirely completed at the end of the year.

Generators

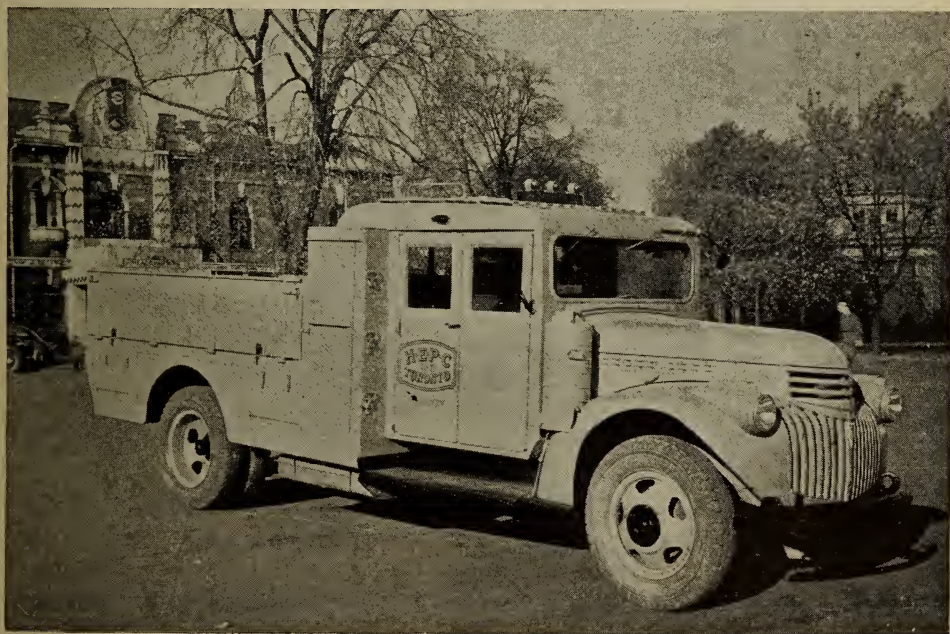
At the DeCew Falls generating station the 25-cycle generator, the armature windings of which were destroyed by fire on December 21, 1945, was completely rewound and the unit returned to service February 5, 1946. New armature windings were installed in two smaller generators, one at the Seymour generating station and the other at South Falls generating station. Major maintenance of three large generators in the plants on the Niagara river and several small generators, chiefly in the Timiskaming district in Northern Ontario, was also carried out.

Transformers

Several transformers, varying in size from 150 to 5,000 kva, were rebuilt and restored to service. To meet increasing load demands, transformers at many distributing stations were replaced by ones of larger capacity, involving about 18,000 kva of additional capacity. A number of 110,000-volt oil-breakers were modernized to improve their interrupting capacity.

Transmission Lines

Regular patrol of all transmission lines was made. About 3,300 defective wooden poles were replaced and some 16,000 poles were given butt treatment to retard rot. A start was made on the postwar program of transmission tower painting. Approximately 60 miles of 110,000-volt towers in the Southern Ontario system have been completed. Radical changes in the 110,000-volt lines supplying the Toronto metropolitan area were commenced, also an undertaking to accommodate a new 220,000-110,000-volt transformer station near Islington and plans to improve the general power supply to the



Forestry truck equipped with tree trim body and compartment for crew

city of Toronto. Extensive rehabilitation of the 110,000-volt line, 92 miles in length, from Cameron Falls generating station to Long Lac transformer station in the Thunder Bay system, was undertaken and practically completed by the end of the year.

In northern Ontario, chiefly in the Timiskaming district, a large amount of transmission line maintenance work was carried out. Many miles of wood-pole lines were rebuilt and circuits were diverted at several places to improve and shorten lines.

Underbrushing of right-of-way, which was deferred during the war years, was resumed.

FORESTRY DIVISION

The field staff was restored to approximately two-thirds of its prewar strength by the return of men from military service and employment of new personnel. This enabled an increased volume of forestry operations to be undertaken.

Line Clearing

In addition to transmission and rural line clearing operations, it was possible to resume work for some of the municipalities.

SUMMARY OF LINE CLEARING OPERATIONS

	Brush cutting, pole spans	Trees treated	Miles of line cleared	Tree density per mile
Bell Telephone Co. joint use of poles.		126	1	126
New line construction.	1	1,511	33	45.8
Municipal Hydro systems (4).		3,418	40	85.5
Transmission and telephone lines.	598	60,989	2,854	21.4
Rural operating areas.	40	18,091	374	48.4
Total.	639	84,135	3,302	25.5

Forest Management

Forest surveys were made of Commission owned properties at Barrett Chute on the Madawaska river and Deschenes Rapids on the Ottawa river. Preliminary inspections were also made of other special properties.

Reforestation

No new planting projects were undertaken in 1946. The plantations at Eugenia and Sidney were inspected to determine the results of aeroplane spray to control the pine saw fly. Very few of these insects survived at Eugenia but a minor outbreak was found at Sidney. Both areas were brought under control by use of hand dusting machines and D.D.T. dusting powder.



Sprayer mounted on a platform for transportation by truck

Spraying

Trees and shrubbery on the more important properties in the Eastern Ontario and Niagara divisions were sprayed with chemical mixtures for the control of insects and fungus diseases. Experimental spraying operations involving the use of the new chemical 2-4-D were also carried out on lawn and stoned areas on several station grounds.

PRODUCTION AND SERVICE DIVISION

The operation of the garage, machine shop and carpenter shop continued on a satisfactory basis. The volume of work done in the garage was approximately equal to that of previous years and included overhauling 88 trucks, mounting 53 new truck bodies and reconditioning 44 units of gasoline driven equipment for the Construction and Operating departments. In addition, 1,404 orders were completed covering miscellaneous truck repairs.

The policy of systematically inspecting and repairing the Commission's fleet of 475 trucks was continued. During the fiscal year the fleet operated a total of 4,418,590 miles, an increase of 37.4 per cent over the previous year. The increase in truck mileage was caused by greatly increased activities in the construction of additional power developments, additional transmission lines and a heavier maintenance programme.

During the year 97 new trucks were purchased, 17 being replacements and 80 additions to the fleet.

The volume of work in the machine shop and carpenter shop continued on a very active basis, exceeding that of the previous year by approximately 86 per cent. The increase was due largely to the inability of various departments to obtain materials from outside manufacturers.

SECTION III

MUNICIPAL WORK

AT THE END of 1946 the Commission was serving 924 municipalities in Ontario. Of this number about two-thirds or 578, including 123 villages and 455 townships are served as an amalgamated rural division of Hydro service (dealt with in Section IV of this Report), and about one-third or 301 are supplied with power by the Commission under cost contracts and operate their own Hydro utilities either as a separate service or as part of a public utilities organization. In addition 45 municipalities are operated direct by the Commission or are served under other forms of contract. This section of the Annual Report deals with the Commission's work in connection with these urban municipalities which operate their own Hydro utilities.

The Commission acts in an advisory capacity to the municipalities with which it has contracts, and assists municipal officials to purchase, construct or extend distribution systems. As provided under The Power Commission Act, all rate adjustments are approved by the Commission, therefore, a study of the operating conditions of all utilities is made annually and adjustments recommended.

Municipalities Served

During the year the Commission provided power to a number of municipalities under the following conditions—

NEW MUNICIPALITIES

A cost contract agreement was entered into and service supplied on July 1, to the village of Bobcaygeon.

A temporary supply of power was delivered to the town of Parry Sound on August 1. Service was given on a month to month basis at a fixed rate. A vote will be taken in January 1947 as to whether the electors of this municipality are in favour of obtaining a supply of power from the Commission.*

AMALGAMATION OF VOTED AREAS

On September 1, Trafalgar Township Voted Areas numbers one and two were amalgamated and now operate as one area.

* Vote was in favour.

TOWNSITE ADDED TO EXISTING SYSTEM

During the year the local distributing system on McKenzie island was purchased from a mining company and added to the Commission's existing Cottage Cove system.

Increased Municipal Loads

The power requirements of urban municipalities are rapidly increasing. During the first eight months of the present year, the increase in demands was almost double the usual increase. During the summer, in some municipalities, loads were curtailed due to labour disputes, but with the settlement of these difficulties, the abnormal increases were resumed.

Loads are increasing rapidly in many existing industrial plants. New industries are being established, many of which are the outcome of ideas developed during the war. Large manufacturing concerns are establishing branch industries in smaller centres, often a considerable distance from the parent plants. There is also a noteworthy trend to establish new industries in suburban areas, a tendency particularly marked in such industries as plastics, chemicals, building products, rubber, electrical appliances and agricultural machinery. It is interesting to note that many British concerns are arranging to establish branch plants in municipalities throughout the Province.

A comparison of the average load sold during 1946 in southern Ontario with that sold during 1945 indicates a substantial increase in suburban areas lying outside large urban centres, also in the smaller communities. The percentage increase is as follows: Cities 4.3 per cent; towns 9.7 per cent; voted areas (suburban outside large urban centres) 24.3 per cent; villages, police villages, etc., 18.0 per cent; total of all municipal loads 6.8 per cent.

Of the 301 Hydro utilities shown in the Commission financial statement for Southern Ontario and Thunder Bay systems, 284 show increases in average load and 17 show decreases. In most cases these decreases were the result of industrial disputes which continued for some months.

The change made in October 1945 from day-light saving time to standard time produced in most municipalities an indeterminate increase, and accounts in part for the increased demands established after October 1945.

Industrial Loads Served Directly By The Commission

In addition to providing power supplies to urban municipalities under contract, the Commission serves a number of large and important industries in various parts of the Province. In some cases the municipal facilities are not adequate for the purpose, in others the industry is of such a character that it is desirable to serve it direct as a system customer.

Numerous requests have been received for a future supply of power to serve many classes of industry. The industrial groups represented include:

The Chemical Industry.

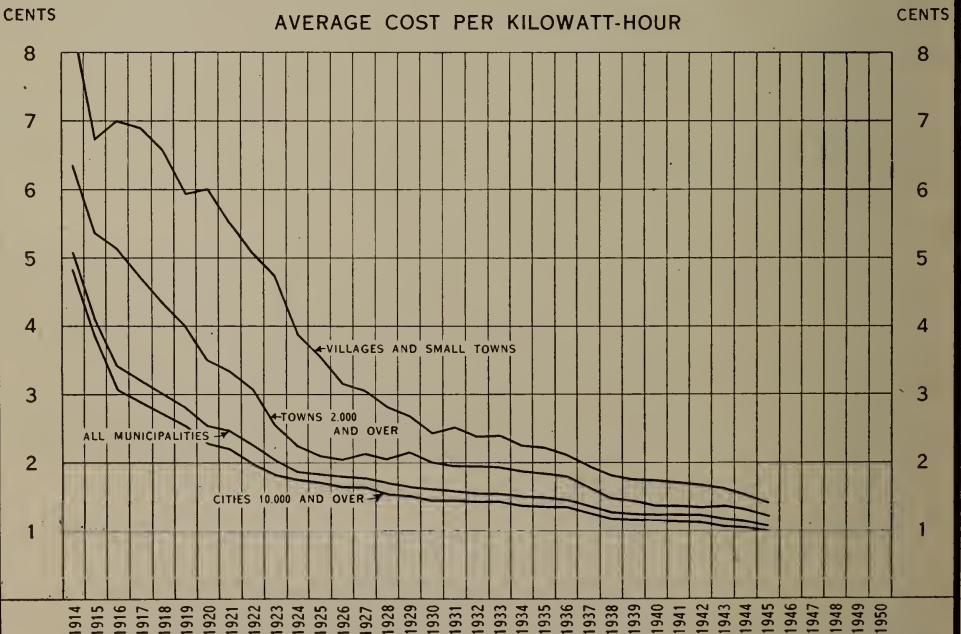
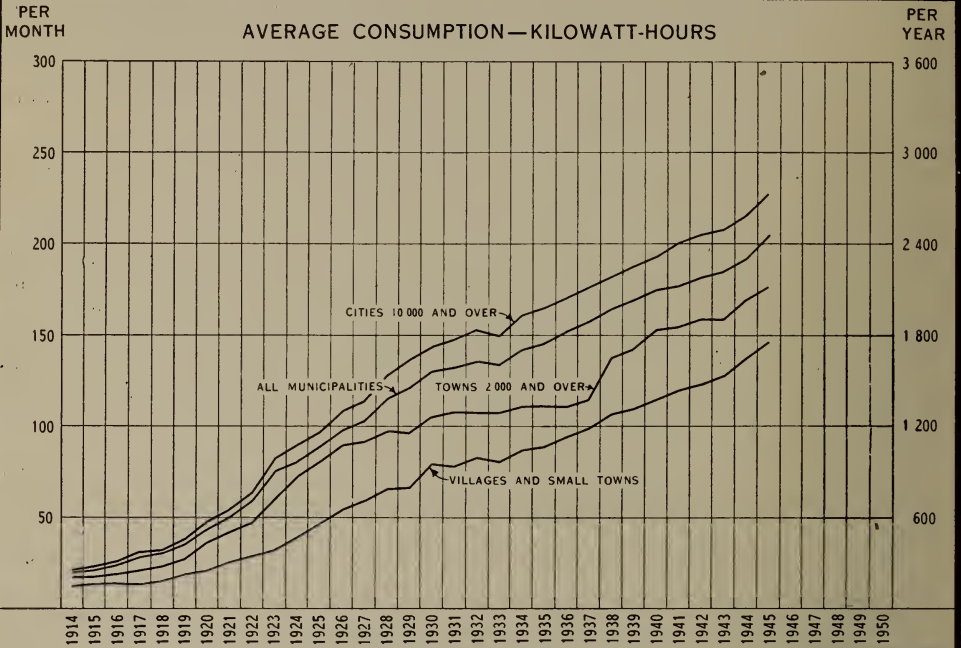
Electro-smelting and furnaces, the loads of which are increasing over and above those obtaining during the war.

Pulp and paper industry—Very large demands are developing in Northern Ontario, including power for projected Kraft pulp mills

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

INCREASED USE BRINGS LOWER UNIT COST

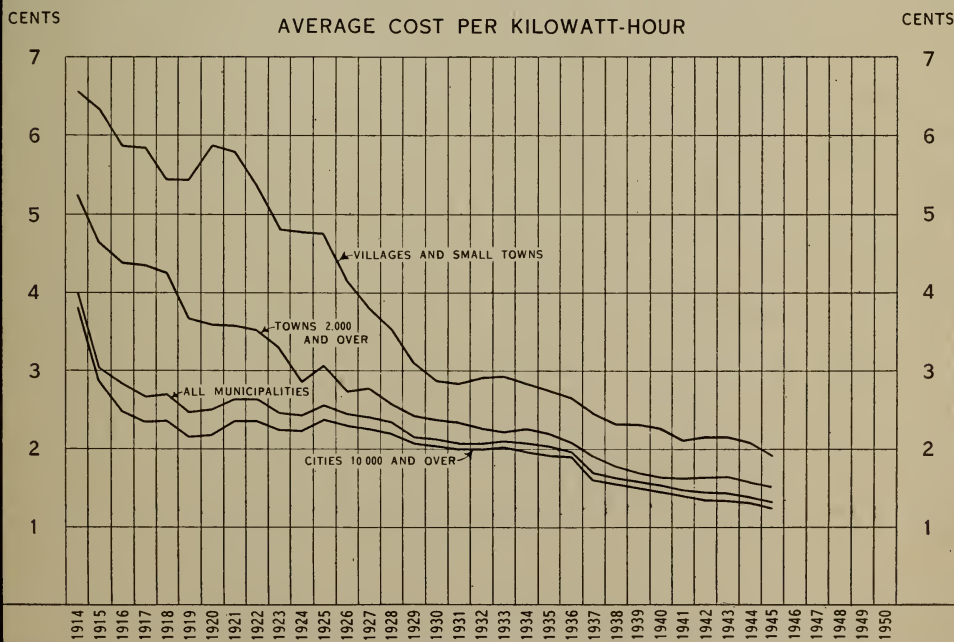
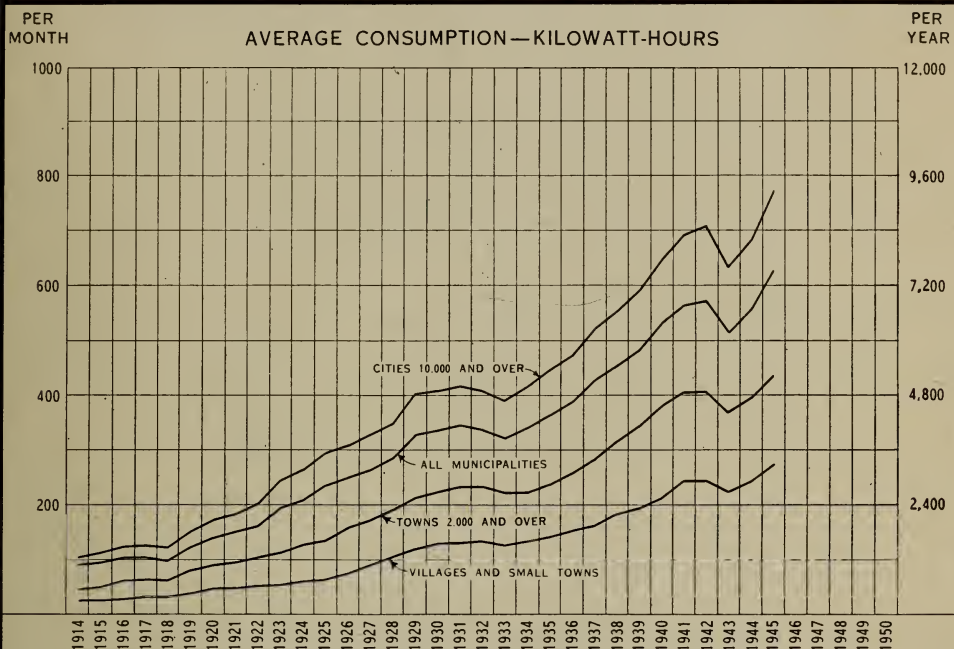
DOMESTIC SERVICE



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

LOW UNIT COST PROMOTED BY INCREASED USE

COMMERCIAL LIGHT SERVICE



to be operated in conjunction with saw mills, so that more of the scrap can be used for pulp.

Cement—The present plants are working at full capacity and at least one new plant is proposed.

Mining—The production of base metals is increasing in a satisfactory manner, and production increases are also noted in iron and non-metallic mining. On the other hand, owing to continuing shortage of labour, there has not yet been an increase in the production of gold. There is, however, marked activity in the search for new gold mines, many of which may develop as producing mines in the next few years.

The intense war production brought both to management and labour new skills and improved manufacturing facilities so that industries are now being established in lines not heretofore attempted. This phase of the industrial growth of the Province may be of far reaching importance.

Statistical Summary of Growth by Utilities

The annual growths in revenue and kilowatt-hour consumption, also the reduction in the average cost per kilowatt-hour from 1914 to 1945 for all domestic and commercial consumers are shown in the accompanying

GROWTH IN HYDRO DOMESTIC SERVICE 1914 TO 1945 ALL URBAN MUNICIPALITIES COMBINED

Year	Number of municipalities	Annual revenue	Kilowatt-hours consumed	Number of consumers	Average cost per kw-hr	Average monthly bill	Average monthly consumption
		\$			cents	\$ c.	kw-hrs
1913.				49,200			
1914.	49	730,168	14,359,100	64,866	5.08	1.06	21
1915.		854,748	20,935,000	85,865	4.08	0.92	22
1916.		992,628	29,359,900	108,364	3.42	0.82	24
1917.	123	1,340,855	41,930,200	131,313	3.20	0.91	29
1918.		1,583,677	52,731,700	146,885	3.00	0.92	31
1919.		1,933,577	68,409,100	169,455	2.82	1.01	35
1920.	166	2,514,658	98,211,000	193,892	2.56	1.15	45
1921.		3,086,051	124,619,800	219,465	2.48	1.24	50
1922.		3,761,172	166,182,000	245,577	2.26	1.34	59
1923.	206	4,955,420	242,926,600	286,852	2.04	1.54	76
1924.		5,548,835	292,608,400	303,787	1.89	1.56	80
1925.		6,414,134	342,356,700	326,307	1.85	1.67	90
1926.	242	7,353,394	404,722,959	349,882	1.81	1.79	98
1927.	267	8,497,190	469,851,690	387,573	1.80	1.87	103
1928.	268	9,411,812	551,010,035	408,071	1.71	1.97	115
1929.	273	10,256,860	612,141,722	424,419	1.67	2.05	122
1930.	273	10,752,720	671,028,310	433,260	1.61	2.09	130.
1931.	289	11,226,091	704,784,457	447,466	1.59	2.12	133
1932.	298	11,676,222	740,900,418	452,615	1.57	2.15	136
1933.	300	11,639,178	742,195,402	460,878	1.57	2.10	134
1934.	300	12,078,069	797,532,709	463,913	1.51	2.17	143
1935.	302	12,393,536	826,972,873	471,265	1.50	2.19	146
1936.	302	12,922,466	881,972,324	482,557	1.47	2.23	152
1937.	305	12,680,921	926,350,703	490,140	1.37	2.16	157
1938.	312	12,880,180	1,003,489,453	507,132	1.28	2.12	165
1939.	317	13,300,898	1,056,310,109	518,123	1.26	2.14	170
1940.	317	13,905,290	1,115,888,837	531,514	1.25	2.18	175
1941.	320	14,452,796	1,169,273,964	546,613	1.24	2.20	178
1942.	323	15,022,931	1,224,195,712	559,605	1.23	2.24	182
1943.	323	15,069,547	1,266,930,625	570,470	1.19	2.20	185
1944.	323	15,528,445	1,348,099,019	579,890	1.15	2.23	194
1945.	340	16,053,818	1,494,258,124	608,905	1.07	2.20	205

tables and graphs. The figures include all the municipal utilities listed in Statement "D" of Section X of this Report and also those municipal utilities owned and operated by The Hydro-Electric Power Commission of Ontario.

The tables give complete information for "all municipal utilities combined" for both domestic and commercial services; the graphs show only increased use and decreased cost for domestic and commercial services but give these data for cities, towns and villages as well as for "all municipalities combined."

It should be noted that the reduction in average cost per kilowatt-hour shown in accompanying tables is only in part due to reductions in rates or prices to consumers. Credit for the reduction in average cost belongs chiefly to the promotional form of modern rate schedules which are designed to give consumers the benefit of the low overall costs of providing additional energy by means of distribution facilities already established.

It should also be noted the tables indicate the amount charged to consumers on their regular accounts and that these figures do not include the

GROWTH IN HYDRO COMMERCIAL LIGHT SERVICE
1914 TO 1945—ALL URBAN MUNICIPALITIES COMBINED

Year	Number of municipalities	Annual revenue	Kilowatt-hours consumed	Number of consumers	Average cost per kw-hr	Average monthly bill	Average monthly consumption
		\$			cents	\$ c.	kw-hrs
1913.				13,113			
1914.	43	624,781	15,669,700	15,657	4.00	3.63	91
1915.		649,585	21,444,900	19,324	3.03	2.95	97
1916.		753,784	26,866,000	22,216	2.82	2.87	102
1917.	123	860,475	31,983,500	27,453	2.69	2.77	103
1918.		947,769	35,053,500	29,570	2.70	2.70	99
1919.		1,158,406	47,087,000	33,307	2.46	3.03	123
1920.	166	1,477,963	59,336,900	36,496	2.50	3.51	140
1921.		1,818,211	68,863,500	39,333	2.64	3.98	151
1922.		2,143,981	81,216,000	43,098	2.64	4.26	162
1923.	206	2,613,257	105,482,600	46,383	2.46	4.80	196
1924.		2,907,427	120,474,800	50,137	2.41	4.99	207
1925.		3,836,946	151,555,200	56,018	2.54	5.98	235
1926.	242	4,176,595	171,797,014	58,444	2.43	6.08	250
1927.	267	4,823,781	200,606,137	64,039	2.40	6.39	267
1928.	268	5,436,795	234,526,831	68,013	2.32	6.66	287
1929.	273	5,893,217	272,343,330	70,106	2.16	7.11	329
1930.	273	6,094,871	287,838,022	71,873	2.11	7.15	338
1931.	289	6,377,520	305,121,640	75,286	2.09	7.20	344
1932.	298	6,402,882	306,596,543	75,705	2.09	7.05	338
1933.	300	6,149,792	292,335,489	75,443	2.10	6.79	323
1934.	300	6,344,921	306,632,722	75,016	2.07	7.05	341
1935.	302	6,601,461	327,413,421	74,884	2.02	7.35	364
1936.	302	7,001,893	355,235,553	75,878	1.97	7.69	390
1937.	305	6,676,968	393,067,119	76,620	1.70	7.26	428
1938.	312	6,909,454	427,020,841	78,021	1.62	7.38	456
1939.	317	7,256,262	459,635,100	78,949	1.58	7.66	485
1940.	317	7,785,024	508,986,422	79,512	1.53	8.16	533
1941.	320	7,991,091	540,995,581	79,824	1.48	8.34	565
1942.	323	7,695,928	531,680,336	77,326	1.45	8.29	573
1943.	323	6,787,241	472,129,977	76,194	1.44	7.42	516
1944.	323	7,298,848	524,905,356	78,256	1.39	7.77	559
1945.	340	8,429,573	634,878,480	84,413	1.33	8.32	627

further benefit that a large number of consumers obtain in the form of cash refunds from time to time.

Under such promotional rate schedules, providing the initial rates are not too high, there is established a beneficial cycle of increased use, leading to lower average costs, which if passed on to consumers in the form of lower rates or prices starts a repetition of the cycle. Under the Hydro practice of giving service at cost the promotional feature is inherent in the rate schedules, and the annual review of operations made by the Commission leads to appropriate rate reductions from time to time, although reduced average cost is chiefly a function and evidence of increased average use.

Financial Progress of Municipal Electrical Utilities

The consolidated balance sheet, published on page 207 of this Report, shows a total plant value in Hydro utilities of \$110,207,969, against which is a debenture balance debt of \$9,049,584. However, some municipalities are accumulating a sinking fund to pay for debentures at maturity and up to 1946 this fund amounted to \$4,609,214. If this sinking fund is deducted from the debenture balance debt the actual unpaid debenture debt would be \$4,440,370. or about 4 per cent of the original value of the distribution systems.

Automatic reduction in the debenture debt, due to the annual principal or sinking fund payment being provided for out of revenue, and the remarkable accumulation of assets reflect a satisfactory financial condition of the Hydro utilities generally. Statement "A" of this Report shows the relation of assets to liabilities in 304 municipalities. In 93 per cent of these municipalities the quick assets such as cash, bonds, accounts receivable and inventories exceed in value the total liabilities, including the debenture balance and their Hydro utilities may fairly be considered as being out of debt.

Engineering Assistance To Municipalities

In its advisory capacity the Commission gave general engineering assistance to municipalities especially in preparing estimates for expenditures to be made in the post-war period. The assistance given relates to deferred maintenance and rehabilitation of the local systems, to the design of more modern street lighting facilities, the preparation of estimates for increased substation facilities, the taking on of new industries and the general utilization of Hydro service. Where additions to capacity of distribution stations and systems are planned or have been made they are of course usually necessary because of increasing loads. The more important matters concerning which advice was given are briefly tabulated below.

SOUTHERN ONTARIO SYSTEM

Niagara Division

Agincourt—A plan outlining additions and improvements to increase the capacity of the system was made.

Amherstburg—Plans were made to install a second 4,000-volt feeder from Amherstburg distributing station.

Blenheim—A 150-kva transformer bank was installed to supply a hybrid corn processing plant. The 4,000-volt primary distribution feeders were rebuilt.

Caledonia—Plans were made to rehabilitate and strengthen the local distribution system.

Chatham—Work continued on the new Grand Avenue municipal station. The building was completed, the 26,000-volt submarine cable laid, and the 3,000-kva transformer and 4,000-volt breakers were installed.

Plans were completed to erect a new 3,000-kva municipal station on Richmond street west to supply several new industries. A duct line nearly one mile long was laid to place underground existing overhead 4,000-volt feeders, supplying the industrial load in the western part of the city.

Modern street lighting units were erected on highway thoroughfares in the city.

Chippawa—Plans were made and submitted to the local Commission for the installation of a modern street lighting system.

Delaware—Estimates were made and plans prepared to change the distribution system from 4,000 to 8,000 volts.

Dorchester—Estimates were made and rates approved for improved street lighting on Hamilton Road.

Dresden—The distribution transformer capacity was increased.

Dundas—During the year a large textile mill located in the municipality. This made it necessary to supply power at 13,200 volts.

Dunnville—Studies were made concerning the advisability of increasing the substation facilities.

Dutton—A bank of three 50-kva transformers was installed to provide service to a new power consumer.

East York Township—This system experienced exceptionally large growth in the number of domestic consumers, which made it necessary to plan for the installation of a new 1,875-kva substation, as well as additions and improvements to the distribution system.

Elmira—The 1,500-kva distributing substation formerly owned by The Hydro-Electric Power Commission, was purchased by the local Commission.

Erieau—Plans were completed to relocate a large portion of the primary distribution system and to increase the capacity of the secondary feeders and transformers.

Erie Beach—Street lighting was installed and sections of the distribution system were rebuilt.

Fergus—The 1,500-kva distributing substation formerly owned by The Hydro-Electric Power Commission was purchased by the local Commission.

Galt—The construction of a garage and storehouse is well under way. It is adjacent to and connected with the office building and faces on Wellington street. The estimated cost, including lighting and heating equipment, is \$35,000.

Approximately three miles of streets were equipped with modern luminaires, spaced at 200 feet and equipped with 300-watt multiple lamps. The units are mounted on 10 feet and 12 foot mast arms and overhang the pavement in order to provide the proper distribution of light.

Georgetown—A second substation of 1,200-kva capacity was ordered by Georgetown Hydro-Electric Commission. It will go into service early in 1947.

Guelph—Substation facilities were increased by the addition of one 1,500-kva station and one 750-kva station.

Kitchener—Rapid industrial expansion chiefly in the rubber industries made it necessary to extend the high-tension distribution facilities. Also, a rapid increase in the use of domestic and commercial service made it necessary to construct a new 3,000-kva station.

To supply direct current to trolley buses operated by the municipality a new substation of the ignitron type, converting alternating to direct current was planned.

Leamington—The 4,000-volt underground system was extended and the capacity increased.

London—A new 13,200-volt line was constructed from the London high-tension station to the local substation on Ridout street. Part of this line was built overhead and the remainder was put underground.

Lucan—Plans were prepared to extend the distribution system to supply power to the new waterworks west of the village.

Mimico—Studies were made for additional feeder and substation capacity.

Moorefield—The local distribution system was rebuilt by the Commission's rural staff stationed in Listowel.

Mount Brydges—Extensive changes are proposed for the rebuilding and improving of the distribution system with an increase from 4,000 to 8,000 volts.

New Hamburg—A new substation was constructed and the local circuits were rearranged.

Newmarket—Distribution transformer capacity was increased to supply new power consumers and facilities were provided to supply power to a large industrial plant now being constructed.

Niagara Falls—Plans covering various improvements in the supply and distribution of power have been discussed, including the installation of telemetering and improvement in street lighting. A 1,500-kva water-cooled transformer is being rebuilt for outdoor use and will be moved from the Victoria street to the Hickson street station.

North York Township—One 1,875-kva unit substation was moved from a factory where the return to peace-time operation resulted in a reduction of load, to a place where additional substation capacity was required to serve new homes. It was decided to increase the capacity of one substation and construct two additional substations. The work will be started in 1947.

Petrolia—The new office building, commenced last year was completed.

Port Dalhousie—Has been served at 4,000 volts from a station in St. Catharines, but it is planned to construct a substation within the municipality to take power at 13,200-volts.

Port Dover—Is one of the leading fishing ports on the Great Lakes, and the freezing of fish has grown in importance. To supply adequate power for this purpose increased substation and distribution facilities are being provided. Street lighting on the main streets is being improved.

Port Rowan—An increased load makes it necessary to strengthen the distribution system

Preston—Modern street lighting equipment consisting of 29 luminaires on mast arms, equipped with 300-watt multiple lamps, was installed.

Rodney—Additional transformer capacity was installed.

St. Marys—A 600-kva, 2,200/550-volt substation was constructed at Jones and Water streets. This provides a supply of electricity at power voltage for a number of the power users. A large expenditure was made for distribution transformers.

St. Thomas—A new 13,200-volt, 3-conductor feeder cable was run from the main substation to Metclafe street, a distance of 4,200 feet, to provide service to a new 2,000-kva transformer for lighting purposes, and also to three 150-kva transformers for power services.

Sarnia—The work of installing the necessary ducts and vaults to place underground the primary lines in the business section was completed.

Plans were completed for a third municipal station of 2,000-kva capacity in the east section of the city, where a large block of new houses is being erected.

Scarborough Township—Increased capacity was provided by the installation of forced-air cooling at one substation and plans were completed to add another substation of 1,875-kva capacity early in 1947.

Simcoe—The street lighting system is being remodelled. In the business section, ornamental standards with 500-watt lamps in modern luminaires are being erected on both sides of the street. Similar standards using 300-watt lamps are planned for the secondary thoroughfares. The supply system is multiple, with plastic-insulated cables in fibre conduit.

Stouffville—The distribution system is being strengthened and transformers added.

Streetsville—Service was given to a new filtration plant by means of new lines.

Swansea—It is planned to construct a 1,875-kva substation to serve part of this municipality at 26,400 volts. Hitherto Swansea has received its power supply through the facilities of the Toronto Hydro-Electric System.

Thedford—Modern street lighting units were installed on the business section. Distribution system transformer capacities were increased.

Thorndale—Arrangements have been made to provide an additional 40 horsepower for a new power consumer.

Toronto Township—Additional substations are planned to handle many new loads.

Trafalgar Township Voted Area—For some years past two voted areas have existed in Trafalgar township. It was decided to amalgamate the two areas into one in order to effect more economical operation. The amalgamation was made effective September 1, 1946.

Wallaceburg—Plans for the construction of a new 3,000-kva municipal station on the west side of the town were completed.

Waterloo—A second substation with a 2,000-kva, three-phase transformer was constructed, all work being done by the local Commission's staff. Remote-control switching, remote metering and temperature indication from No. 1 substation are features of the installation.

Watford—Plans were completed for a new consumer-owned 300-kva distributing station to supply an industrial welding load.

West Lorne—Distribution circuits are being removed from the main street in preparation for the installation of an ornamental street lighting system.

Wheatley—A new ornamental street lighting system in the business section of the town was installed.

Woodbridge—Arrangements were made to supply additional power at 26,400-volts to an industrial consumer who has enlarged his manufacturing plant.

Woodstock—The Public Utilities Commission has standardized on the installation of outdoor metering for its domestic and small commercial consumers. As these meters are installed a control wire is added for water heaters. Some five miles of 8,000/4,600-volt transmission line is being constructed to provide 90 horsepower at the Waterworks springs south of the city.

York Township—Studies were made as to the necessity of adding three additional 3,750-kva substations.

Georgian Bay Division

Alliston—The primary distribution system was improved and plans were made for the installation of additional distribution transformers and heavier secondaries in 1947. New street lighting is being planned for the business section.

A new rural substation will be placed in service in 1947 to supply the entire rural load now fed from the Alliston substation. This will relieve the overload on this station and provide capacity for further growth.

Arthur—The rebuilding of the feeder line supplying the town was completed. In addition to increased size of conductor, provision was made to raise the feeder voltage from 4,000 to 12,000 volts. This change will be completed when new transformer stations, one at Grand Valley stepping down from 44,000 to 12,000 volts and one at Arthur stepping down from 12,000 to 4,000 volts, are ready. These stations are planned for construction in 1947.

Plans were drawn up covering extensive improvements including better street lighting.

Barrie—The 3,000-kva substation in the Allandale section of the town was placed in service early in the year, but the installation of the low-tension switching and metering equipment has not been completed. Substantial changes were carried out on the distribution system to permit the transfer of load to the new station. A building to house new water heater control equipment will be erected on the property.

Beaverton—Improved street lighting is planned for the business section for 1947. A small woodworking plant was supplied with power this summer. Applications were also received for a power service to a new planing mill.

Bradford—The primary circuit was rebuilt from the substation south to the Holland marsh to supply two new power consumers, a large cold storage plant, and a vegetable processing plant.

Plans are being made for new street lights on the main streets.

Cannington—Plans are progressing for new street lights for the business section of the town, and it is expected they will be installed in 1947.

Chesley—A new industry manufacturing rubber products was supplied with power by a short extension to the distribution system.

Coldwater—A new service and power bank for the dairy was installed.

Collingwood—Plans were made for changes on the distribution system to improve the arrangement of the municipal circuits and the Commission's communication lines. Plans were made to extend the distribution system involving municipal attachments on the transmission poles.

Cookstown—Revamping of the distribution system is proceeding as material becomes available.

Dundalk—The transmission voltage to this municipality was raised from 22,000 to 44,000-volts and the capacity of the transformers in the substation was increased from 225 to 600 kva.

Durham—The transmission voltage to this municipality was changed from 22,000 to 44,000-volts, and the capacity of the transformers in the substation was raised from 450 to 600 kva.

Elmvale—A new substation was erected in the south end of the village. The high-tension circuit was removed from the main street and it is planned to remove the poles and install ornamental street lights.

Grand Valley—The transmission line voltage to this municipality was increased from 22,000 to 44,000 volts.

Gravenhurst—New buildings are being erected by one of the larger power consumers and its load is being gradually increased to an ultimate 600 horsepower. New primary conductor and transformer capacity will be provided for this and other additional loads.

Kincardine—Arrangements were made during the year to supply approximately 75 horsepower to a new woodworking industry. Plans were made for a number of changes and improvements to the distribution system.

MacTier—Substantial rehabilitation was carried out on the distribution system and new street lights will be installed when equipment becomes available.

Midland—Preliminary work was undertaken in regard to a contemplated distribution system change from 2,200 to 4,000 volts. A new overhead and underground feeder was extended to a coal company to serve a new substation erected by the Company on its property.

Mount Forest—Work in connection with changing the transmission voltage from 22,000 to 44,000 volts was completed, involving a corresponding change in the connection of the station transformers.

Neustadt—Remodelling the distribution system was carried out in accordance with plans submitted.

Orangeville—The transmission voltage to this municipality was changed from 22,000 to 44,000 volts, with a corresponding change in voltage and an increase in the capacity of the transformers in the substation from 750 to 2,000 kva.

Owen Sound—Work was completed on the installation of 3,000-kva additional capacity at the substation which will be of a temporary nature until a new substation, to be constructed in the vicinity of Twelfth street and Second avenue west, is completed.

A portion of the distribution system has been converted from 2 300 to 4,000 volts and is being served from the 3,000-kva addition at the main substation. Numerous improvements have been carried out on the local distribution system and plans which will involve further work of this nature over a period of several years have been prepared.

Paisley—Plans were prepared for extensive changes and improvements to the local distribution system. Work will be started in 1947.

Penetang—Substation capacity was increased and alterations were made to the distribution system.

Port Elgin—Improved street lighting, utilizing modern fixtures and equipment, were installed in the business section.

Port McNicoll—A preliminary study of the distribution system was made with a view to conversion from 2,200 to 4,000 volts. It is expected the work will be completed during 1947.

Shelburne—The transmission voltage to this municipality was changed from 22,000 to 44,000 volts, with a corresponding change in voltage and an increase in the capacity of the transformers in the substation from 300 to 600 kva.

Removal of poles from the business section of the main street, the installation of a modern street lighting system, and the complete remodelling of the

distribution plant is being planned. A start will be made on the actual construction during 1947.

Sunderland—The distribution system is being changed from 4,000 to 8,000/4,600 volts to take advantage of the nearby Pinedale substation as a source of supply.

Thornbury—Changes were made in the municipal generating plant to permit parallel operation with the Georgian Bay division plants.

Tottenham—The removal of the pole line from the main street is progressing. Five new street lights have been installed and the remaining twelve in the business section will be in service early in 1947.

Uxbridge—An additional feeder is planned to supply the north section of the town. This feeder will be used as a loop feed in case of emergency. New street lights for the business section are being planned for 1947.

Victoria Harbour—The high-tension feeder to the municipality was converted from single to three phase with similar changes in the substation and on the distribution system to provide for a new 60-horsepower load at the chemical plant.

Waubashene—A new transformer bank was erected to provide for a 75-horsepower load to an ice company.

Warton—A survey was made of the distribution system and plans were drawn up covering extensive improvements required, particularly in the business area.

Windermere—Changes were made to take care of substantial increase in load at a large summer hotel.

Wingham—A meter department was organized to handle repairs and adjustments and to provide facilities for re-inspection of meters for the town and district.

Eastern Ontario Division

Alexandria—A new rural station is being erected to relieve the overloaded condition of the municipal station.

Bobcaygeon—A contract for 100 horsepower was signed by the municipality, and the Commission constructed a new single-phase 6,900-volt line to deliver approximately 100 horsepower to the municipality to supplement the power from the local generating plant. Power was delivered on July 1, 1946.

Bowmanville—A new substation will be installed in Bowmanville as soon as material can be obtained to take care of increased load.

Brockville—The Phillips Electric Company which has received its supply of power in past years direct from the Commission has been transferred to the municipal system.

Cobourg—Estimates are being prepared for increasing the capacity of the present substation to take care of new load and normal growth. This will also be the first step in changing the local distribution system from 2,300-volts delta to 4,000-volts star.

Martintown—The substation at Martintown serving the municipalities of Lancaster and Martintown and the adjoining rural area was enlarged. The voltage of the distribution system was changed to 8,000 volts.

Norwood—The Commission's rural staff, which operates the distribution system in this municipality, rebuilt and improved a large portion of the distribution system.

Ottawa—Investigations and studies were conducted to determine the value of the properties of the Ottawa Light, Heat and Power Company.

Peterborough—Approval was given for the construction of an extension to the Peterborough Public Utilities building. This extension will provide increased office space and storage and meter testing facilities.

Port Hope—Consideration is being given to locating a new substation of adequate capacity in the industrial area at the south end of the town

Smiths Falls—It was necessary to add a 750-kva transformer temporarily at the substation pending the installation of a second substation.

Trenton—To provide for new industrial loads plans and estimates for doubling the feeder capacity serving the town of Trenton out of Sidney terminal station have been prepared.

THUNDER BAY SYSTEM

The Thunder Bay co-operative system serves the territorial district of Thunder Bay north of lake Superior. Two power developments on the Nipigon river supply 60-cycle power.

The co-operative municipalities include the cities of Port Arthur and Fort William, a voted area in Nipigon township, and the various townships of the Thunder Bay rural operating area. Power is also supplied to the mining townsites of Geraldton and Beardmore, to seven gold mines, in the Beardmore and Longlac mining districts, to four large paper mills and to the Rainy River district of the Northern Ontario Properties.

The total average load utilized during the year 1946 by the municipal systems and rural operating area amounted to 41,376 horsepower; by paper companies 63,289 horsepower; for mining operations and mining townsites 9,408 horsepower; and by the Rainy River district, Northern Ontario Properties, as measured at Port Arthur 17,358 horsepower. A small amount of power was also taken by the Kaministiquia Power Company. The load increases or decreases for these groups in 1946 over 1945 were approximately as follows:—

Group	Change in average load	
	Increase	Decrease
	horsepower horsepower	
Municipal systems.....	....	881
Rural service.....	185	....
Mining operations.....	2,742	....
Pulp and paper operations.....	10,330	....
Rainy River district, Northern Ontario Properties...	....	954

The total average load sold in 1946 was 131,460 horsepower, an increase of 11,451 horsepower.

The falling off in municipal load was due to reductions in load by war industries at Port Arthur, but present indications are that greatly increased

loads may be expected from new industries which have already applied for service. Load increases occurred in rural areas, but shortage of materials limited the construction of new lines.

Large post-war load increases have already occurred in both the mining and the pulp and paper industries. Further load increases to the extent of possibly 60,000 horsepower are expected during the next five years due to further expansion for mining and pulp and paper operations.

The falling off in load in the Rainy River district was only temporary, and planned expansion in the operations of both the Steep Rock Iron Mines and the Ontario-Minnesota Pulp and Paper Company will require greater supplies of power in the near future.

New generating plants are now under construction or being planned. Details of these are given in Section VI and VII of this Report. They include a plant of 53,500 horsepower on the Aguasabon river, power from which will be made available during the winter of 1948-49.

Engineering assistance and advice was given during the year to the local Commissions of Port Arthur, Fort William and Nipigon township covering the operation and maintenance of their local distribution systems, and advice was given to the various pulp and paper, and mining companies in connection with the expansion of their plants with greatly increased loads during the next five-year period.

NORTHERN ONTARIO PROPERTIES

The publicly-owned Hydro generating stations and transmission networks serving chiefly the mining areas of Northern Ontario and their associated communities are known as the Northern Ontario Properties. They are held in trust by the Commission for the Province and operated upon the financial responsibility of the Ontario government.

The policy of the Commission on behalf of the Government is to encourage and assist mining development and pulp and paper mill operation in northern Ontario, by supplying power at a low stabilized cost, as power cost constitutes an important item in the expense of operating these industries.

The Northern Ontario Properties serve seven districts as follows:

The **Abitibi district** serves the Porcupine, Kirkland Lake, Matachewan and Larder Lake gold mining areas, and the International Nickel and Falconbridge Nickel Companies at Sudbury. The total average load sold by the Abitibi district in 1946 was 111,334 horsepower, a decrease of 18 per cent, due to war load being dropped by the International Nickel Company. Increases in both nickel and gold mining loads now taking place will it is believed quickly put to use the relinquished power. Power supplies at 25 cycles come from a hydro-electric development at Abitibi Canyon.

The **Timiskaming district** serves the Larder Lake, Kirkland Lake and Porcupine mining sections. Service is supplied at both 25 cycles and 60 cycles from eight generating plants. The total average load sold in this district in 1946 was 46,957 horsepower, an increase of 6 per cent. The Timiskaming and Abitibi districts are interconnected through a frequency-changer set at Kirkland Lake.

The **Sudbury district** serves with 60-cycle power the territory adjacent to the city of Sudbury and the International Nickel and Falconbridge Nickel Companies. The total average load sold in 1946 was 24,123 horsepower an increase of 1.8 per cent.

The **Nipissing district** serves with 60-cycle power the area adjacent to the city of North Bay, the town of Powassan, and the village of Callander. The total load sold in this district in 1946 was 7,163 horsepower an increase of 18 per cent. The Sudbury and Nipissing district generating plants are all interconnected by transmission networks and the available power supplies were fully utilized in 1946.

Transmission tie-lines

Arrangements have been completed for constructing a tie transmission line between the 60-cycle generating plants of the Timiskaming district and the Crystal Falls generating plant in the Sudbury district. It is expected that this new tie line will be completed by the summer of 1947 and when placed in operation all of the generating plants in the Abitibi, Timiskaming, Nipissing and Sudbury districts will be tied together through transmission tie lines and the frequency-changer set at Kirkland Lake.

The **Patricia district** serves with 60-cycle power the Red Lake and Pickle Lake mining areas, and all territory as far east as Sioux Lookout, and as far south as Dryden. The total average load sold in 1946 was 11,110 horsepower, an increase of 22 per cent.

The **Rainy River district** serves, with 60-cycle power purchased from the Thunder Bay system, the Steep Rock Iron Mines and adjacent territory. The total average load sold to consumers in 1946 was 17,018 horsepower, a decrease of 5.9 per cent. Additional loads to be taken by the Steep Rock Iron Mine during the coming year will more than make up this loss.

The **Manitoulin rural operating area**, comprising all of Manitoulin Island, is also included in the Northern Ontario Properties. Power has been purchased from the Manitoulin Pulp Company, a subsidiary of Little Rapid Pulp Company of Minnesota which owned the Kagawong hydro-electric development on Manitoulin island. The Commission on November 1, 1946 acquired this generating plant.

Studies were made covering the installation of diesel-engine auxiliary units and also for securing a power supply from another hydro-electric source, or from a combination of both to supplement the output of the existing generating plant. Definite action will be taken to provide a new source of power next year.

Summary

Power is supplied by the Commission in Northern Ontario to thirty municipalities and townsites; four rural operating areas; fifty-eight gold mines; nine silver and cobalt mines; three nickel mines and to one iron mine. The total load sold in 1946 was 218,493 horsepower, a decrease of 8.1 per cent. Present indications are that increases during the coming year will more than make up for this load loss.

Great activity took place during 1946 involving plans for extensive expansion in gold, nickel, and iron mining operations, and also in connection with new pulp and paper mills. These activities may increase demands for power by approximately 70,000 horsepower during the next five years. The Commission is making plans to provide new power supplies to meet these conditions.

SECTION IV

RURAL ELECTRICAL SERVICE

IN ONTARIO

AGRICULTURE, the leading industry in the Province of Ontario, is depending more and more for its efficient and profitable operation upon low-cost Hydro service. The Hydro-Electric Power Commission is endeavouring to overcome difficulties caused by shortages of materials so that an increased productive capacity and a higher standard of living may be provided, through Hydro service, for many more of the farms of Ontario.

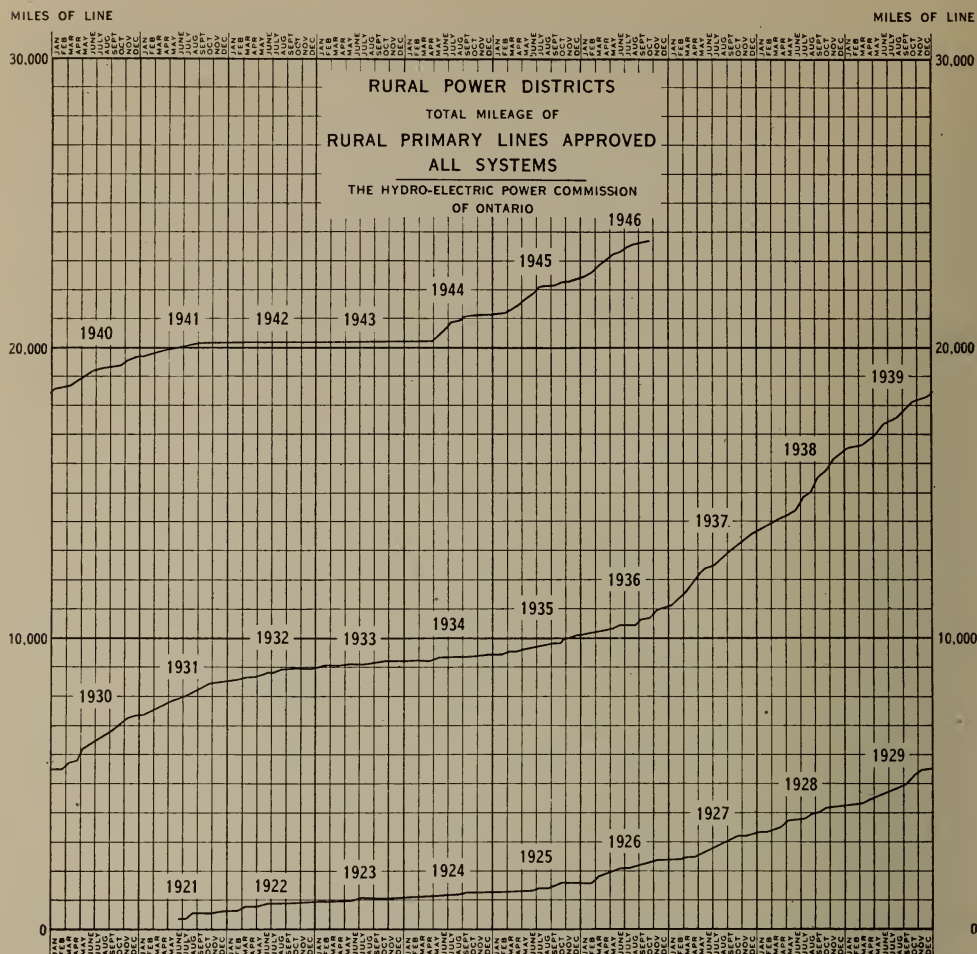
In 1944, the Commission put into operation a comprehensive revision of its rural service, incorporating a uniform rate structure with a common rate applicable to each class of service. It should be noted that the uniform rate applies to rural consumers only. Industrial power consumers served by the lines and facilities of rural operating areas have separate power rates. These rates, based on local cost of power and other factors, are given at the end of this section.

When introduced it was considered that the new rural rate structure would lessen some of the difficulties inherent in the problem of wider distribution of electricity in rural Ontario. After three years it is manifest that the revision carried out constitutes the greatest step forward since the formation of rural power districts (now called rural operating areas) in 1920, and the subsequent grants-in-aid inaugurated by the Province in 1921, and extended in 1924, in connection with its well established policy of assistance to agriculture.

Although for convenience of administration, the local rural operating areas have been retained as administrative units, the whole rural service is amalgamated into one rural power division of Hydro service, with a pooling of all revenue and expenses. This rural amalgamation and unification of rates is made possible by the financial assistance given by the Province as part of its aid to agriculture. The extent and effect of the Province's financial assistance with respect to the distribution of power in rural operating areas should therefore be clearly understood.

Provincial Assistance

The government grant-in-aid of 50 per cent of the capital cost of lines and equipment for the supply of power, relates solely to the initial capital investment for distribution facilities in rural operating areas.



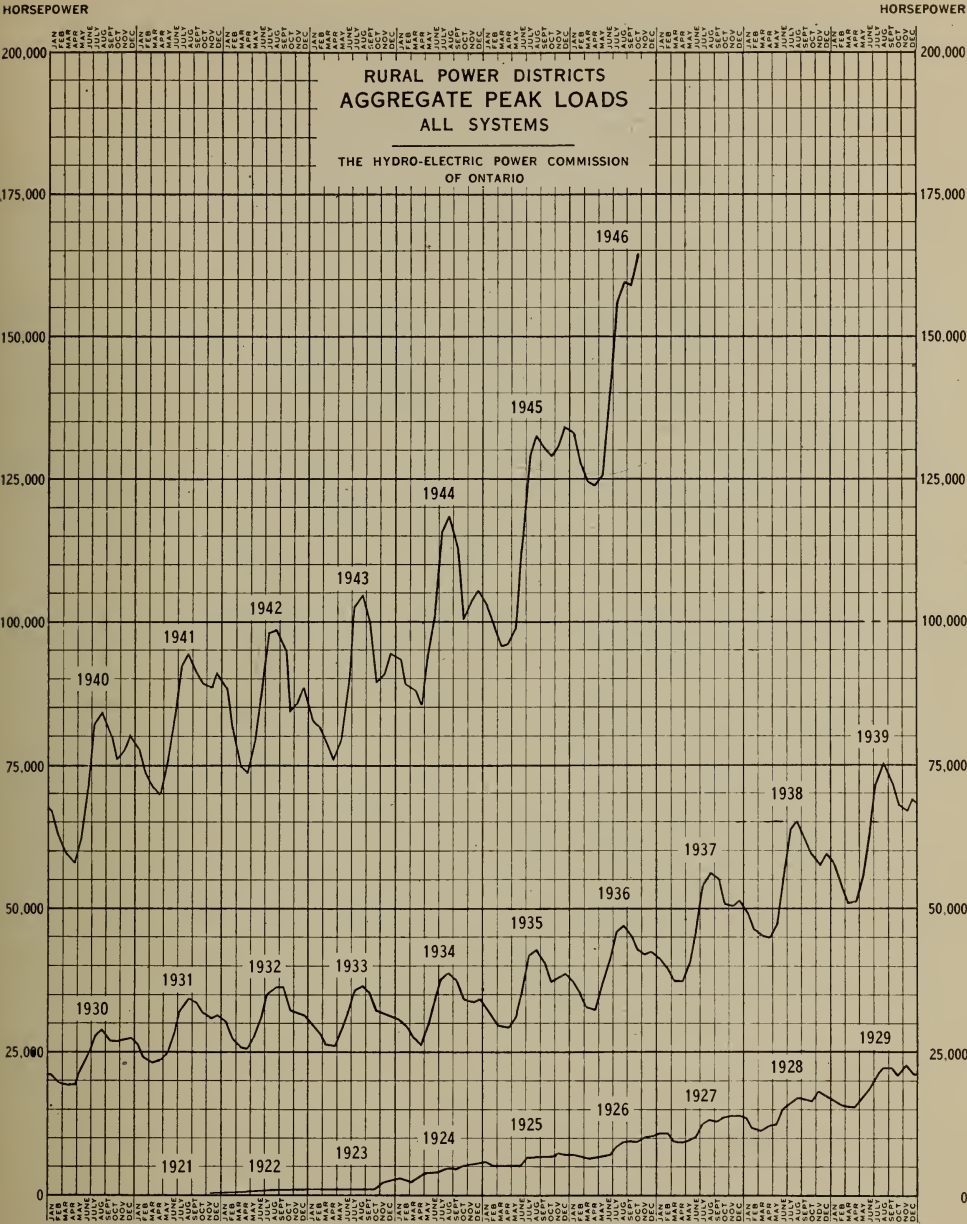
Having made this grant-in-aid the government further participates in the operation of the province-wide Hydro rural service in that it guarantees the Commission against loss due to the fixing of a maximum service charge or its reduction or removal.*

The new set-up is a means of apportioning the benefits from provincial assistance where they will do most good: namely, to the farmer in sparsely settled and less fertile farming areas where, because of these conditions, electrical service is necessarily more costly to provide.

Status of Rural Service in 1946

In 1946, 30 areas were amalgamated with other areas and rural service in Ontario is now given through 91 operating administrative units which, for convenience, continue to be referred to as rural operating areas. Power was delivered to approximately 177,605 rural consumers, comprising farms and dwellings in various groups. The consumers are situated in 433 organized

* The Rural Power District Service Charge Amendment Act, 1944.



townships; 22 unorganized townships and 123 police villages, villages and small towns and are served over a network of rural primary lines which aggregate 23,663 miles. In addition to the 455 townships served by rural operating areas, 10 townships are served jointly by rural operating areas and voted areas.

During 1946 the situation in regard to material required for construction of rural lines improved. The delivery of wood poles was greatly improved,

**RURAL LINE EXTENSIONS APPROVED BY THE COMMISSION DURING
THE YEAR 1946**

System	Miles of primary line	Net increase in number of consumers			Power supplied in October 1946	Capital approved for extensions	
		Farm	Non-farm	Total		Total	Provincial grant-in-aid
SOUTHERN ONTARIO					h.p.	\$	\$
Niagara division....	465.61	3,365	5,477	8,842	113,099	2,555,480	1,277,740
Georgian Bay div....	283.23	1,143	2,357	3,500	16,207	1,136,732	559,249
Eastern Ontario div.	484.26	1,923	2,664	4,587	30,769	1,913,314	956,657
Southern Ont. totals..	1,233.10	6,431	10,498	16,929	160,075	5,605,526	2,793,646
THUNDER BAY.....	13.50	40	81	121	1,126	51,850	25,925
NORTHERN ONTARIO PROPERTIES.....	149.68	399	781	1,180	3,223	582,940	291,470
Totals.....	1,396.28	6,870	11,360	18,230	164,424	6,240,316	3,111,041

but materials such as conductors and line hardware were insufficient to permit the completion of more than sixty per cent of the primary extension programme originally proposed. Service connections were also delayed due to the non-delivery of suitable transformers having regard to the voltage and frequency employed in each area.

On October 31, 1946, there were enough rural applications for service on hand to warrant the construction of 4,559 miles of new primary line. In addition it is anticipated that further applications will be received during the year which will require 2,970 miles of primary line, making a total of 7,529 at the end of 1947. Our construction plans call for the building, in 1947, of about 1,500 miles of the above mileage, providing we can get the material for this programme as well as for a considerable programme of betterments to improve our service to existing consumers.

When it became necessary during the war to extend our lines to assist in production of food, material was so short that we had to use it for extensions and postpone improvements to service. It has now become necessary in many areas to increase the capacity of our lines before extending them further.

During the past year the mileage of rural-line extensions, approved for construction in rural operating areas in Ontario, was 1,396. The net increase in the number of consumers after allowance for cancellation and sale of lines in annexed territories to municipalities was 18,230. Whereas the primary line extensions approved or constructed were below the proposed programme, nevertheless the number of consumers that were added to existing lines was so great that the total consumers added was considerably higher than any previous number in any year since the commencement of rural power distribution.

SUMMARY OF RURAL LINE EXTENSIONS

Approved by the Commission from June 1, 1921 to October 31, 1946

Constructed or Under Construction

System	Miles of primary line	Number of consumers			Capital approved for extensions	
		Farm	Non-farm	Total	Total	Provincial grant-in-aid
					\$ c.	\$ c.
SOUTHERN ONTARIO						
Niagara division....	13,170.24	48,796	56,775	105,571	35,316,908.89	17,635,174.44
Georgian Bay div....	3,858.92	8,750	18,130	26,880	9,232,993.95	4,514,716.49
Eastern Ontario div.	5,798.58	16,026	22,131	38,157	15,243,343.31	7,621,671.65
Southern Ont. totals...	22,827.74	73,572	97,036	170,608	59,793,246.15	29,771,562.58
THUNDER BAY.....	312.30	675	1,049	1,724	732,335.00	366,167.50
NORTHERN ONTARIO PROPERTIES.....	522.54	972	4,301	5,273	1,773,218.00	886,609.00
Totals.....	23,662.58*	75,219	102,386	177,605	62,298,799.15	31,024,339.08

* These totals include 904.78 miles of primary line under construction on October 31, 1946 and service to 4,243 new consumers, not completed until after the end of the fiscal year.

During the year 233 rural consumers were annexed by urban municipalities and this group has been deducted from the total number of consumers.

The average aggregate peak load* supplied to all rural Hydro consumers, in rural areas in the Province, amounted to 139,818 horsepower, an increase of 26 per cent over 1945.

In previous years the maximum aggregate power sold in rural areas occurred during the summer months of July or August. During August 1946 the peak was 159,306 horsepower or 20 per cent higher than the previous summer peak. Had the usual conditions prevailed the power sold to consumers during the fall and winter should have been slightly lower than the preceding summer peak, however the use of rural power is increasing to such an extent that during the month of October a peak of 164,424 horsepower was established, and the winter peak reached 166,000 horsepower.

Rural Loans

Under The Rural Power District Loans Act, 1930, authority was given to The Hydro-Electric Power Commission of Ontario to finance the installation of wiring and the purchase of specified electrical equipment by rural farm consumers.

Owing to the necessity to conserve funds for war purposes this financing was discontinued on October 31, 1940. Up to that time 1,776 loans had been granted, amounting to \$360,852. Details are as given in previous Annual Reports.

To October 31, 1946, 1,769 loans had been repaid in full, either through the maturing of the loan or by being paid in advance by the borrower.

* Average aggregate peak load is the summation of the twelve monthly peak loads for each and all rural operating areas divided by twelve.

Class and minimum rating	Demand	Service charge per month	Energy consumption per month			Minimum bill (gross) per month
			at 3.5 cents per kw-hr	at 1.6 cents per kw-hr	at 0.75 cents per kw-hr	
F3	kw	cents	kw-hrs	kw-hrs	kw-hrs	\$ c.
H2 (2 wire)	3	Nil	60	180	Balance	2.25
H3 (3 wire)	2	56	40	80	Balance	1.67
H3 (3 wire)	3	56	40	180	Balance	2.25
C2	2	Nil	60	120	Balance	1.50
		Annual fixed charge	Energy consumption per year			Minimum bill per year
			at 3.5 cents per kw-hr	at 1.6 cents per kw-hr	at 0.75 cents per kw-hr	
S2	2	\$ c. 11.11	kw-hrs 150	kw-hrs 450	kw-hrs Balance	\$ c. Annual fixed charge
Prompt payment discount—10 per cent						

For higher demands, above the minimum rating, add to the minimum rating set out above, for each additional kilowatt, the following:

RATE SCHEDULES FOR RURAL SERVICE
ADDITIONAL CHARGES AND CONSUMPTIONS FOR EXTRA DEMAND

Class	Additional service charge per month per kw	Energy consumption per month per kw.			Addition to minimum bill (gross) per month per kw
		at 3.5 cents per kw-hr	at 1.6 cents per kw-hr	at 0.75 cents per kw-hr	
F4, F5, etc. H4, H5, etc. C3, C4, etc.	Nil	kw-hrs 20	kw-hrs 60	kw-hrs Balance	\$ c. 0.75
	No increase	20	60	Balance	0.75
	Nil	30	60	Balance	0.75
	Additional annual fixed charge	Energy consumption per year per kw.			Minimum bill per year
		at 3.5 cents per kw-hr	at 1.6 cents per kw-hr	at 0.75 cents per kw-hr	
S3, S4, etc.	\$ c. 3.33*	kw-hrs 75	kw-hrs 225	kw-hrs Balance	\$ c. Annual fixed charge
Prompt payment discount—10 per cent					

* Yearly minimum fixed charge for all summer classes above S2—\$15.56 (gross), or \$3.33 (gross), per kw of demand, whichever is the greater.

DESCRIPTION OF MAIN CLASSES OF HYDRO RURAL SERVICE

Beginning January 1, 1944 electrical service was supplied in rural operating areas under four main classes described below. When the class of service which will meet the requirements of the individual consumer has been chosen, contracts are executed between the consumer and the corporation of the township concerned.

Farm Service

Farm service shall be considered to be service to property having lands used for the production of food stuff or industrial crops for sale and from which a substantial livelihood is obtained. It shall include electrical service to all farm buildings and equipment situated on the farm and used for farm purposes, including buildings and equipment required for processing the products of the customer's farm.

Service under a single farm contract may be supplied to all dwellings or separate domestic establishments situated on the farm property and occupied by persons who are regularly engaged in the operation of the farm.

Additional dwellings or domestic establishments situated on a farm property and occupied by persons not regularly engaged in the operation of the farm, if served, shall be classed as hamlet contracts and rated accordingly. Small properties of five acres and less will be classed as hamlet services except under special circumstances which would justify a farm classification.

The minimum demand rating of a farm service for billing purposes shall be taken as three kilowatts.

Hamlet Service

Hamlet service shall be considered to be service to a domestic establishment or residence in a rural or in a small suburban community served as part of a rural operating area. This class shall include isolated rural residences.

The demand rating of a two-wire hamlet service will be taken as two kilowatts and will be limited by a 20-ampere breaker or a 30-ampere fuse. Where the hamlet service exceeds two kilowatts, three-wire service shall be supplied and the minimum demand rating for a three-wire service shall be three kilowatts.

Commercial Service

Commercial service shall be considered to be service to community or business premises including schools, churches, public halls, hospitals, hotels, public boarding houses, tourist camps, business and professional offices, stores, repair shops, garages, gasoline stations, blacksmith and woodworking shops, small manufacturing and processing plants, chick hatcheries, sign and display lighting and all other premises used for commercial or community purposes.

Single-phase power only will be supplied under a commercial contract. Where three-phase power is required, the service will be classed as an "Industrial power service."

The minimum demand rating of a commercial contract shall be two kilowatts for a two-wire service and three kilowatts for a three-wire service.

Summer Service

Summer service is applicable to properties where service is used normally only during the summer months and which are not established as the consumer's permanent residence. This service is not limited to cottages, but may include summer hotels, tourist camps, refreshment booths and other commercial premises.

The demand rating of a two-wire summer service will be taken as two kilowatts and will be limited to a maximum of a 20-ampere breaker or a 30-ampere fuse. Where the summer service exceeds two kilowatts, three-wire service shall be supplied and the minimum demand rating for a three-wire service shall be three kilowatts.

STANDARD NUMBER OF CONSUMERS PER MILE

The number of consumers required per mile of line extension varies according to classification and rating of all applicants. For this purpose a unit rating is allocated to each consumer, according to the classification and rating.

The following table shows the number of units and contracts per mile for each class of service:—

Classification of consumer	Rating in kilowatts	Units per contract	Contracts per mile
Single Services			
Farm.....	3 and over	5	2
Hamlet.....	2	3	3.33
Hamlet.....	3	3	3.33
Hamlet.....	4	3	3.33
Hamlet.....	5 and over	4	2.5
Commercial.....	2	3	3.33
Commercial.....	3	3	3.33
Commercial.....	4	3	3.33
Commercial.....	5 and over	4	2.5
Summer.....	2	2	5
Summer.....	3	2	5
Summer.....	4	2	5
Summer.....	5 and over	3	3.33
Multiple Services			
Farm.....	3 and over	5	2
Hamlet.....	4	3	3.33
Hamlet.....	5 and over	4	2.5
Commercial.....	4	3	3.33
Commercial.....	5 and over	4	2.5
Summer.....	4	2	5
Summer.....	5 and over	3	3.33
Combination Services			
Total kilowatts of:			
Combined Farm with Hamlet or Commercial.....	4 and over	5	2
Combined Hamlet with Commercial.....	up to 4	3	3.33
Combined Hamlet with Commercial.....	5 and over	4	2.5



An attractive farm home in Ontario

**RATE SCHEDULES FOR INDUSTRIAL POWER SERVICE
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS**

As a result of studies made during 1945, the following schedule of rates for industrial power service was placed in effect on January 1, 1946.

Industrial Power Service

Power service shall cover three-phase service to power users such as creameries, cheese factories, chopping mills, industries and special loads which cannot be supplied as Commercial single-phase service.

**INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS**

Control office location	Rural operating areas	Basis of rate, 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All additional per kw-hr	Local discount	Prompt payment discount
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**Southern Ontario System—
Niagara Division**

		\$ c.	\$ c.	cents	cents	cents	%	%
Aylmer.....	Aylmer.....	27.00	1.00	2.3	1.5	0.33	10
Beamsville....	Beamsville....	24.00	1.00	2.3	1.5	0.33	10	10
Blenheim.....	Blenheim.....	28.00	1.00	2.5	1.6	0.33	.....	10
Bothwell.....	Bothwell.....	30.00	1.00	2.8	1.8	0.33	.....	10
Brampton.....	Brampton.....	26.00	1.00	2.2	1.4	0.33	.....	10
Brantford....	Brantford....	26.00	1.00	2.2	1.4	0.33	.....	10
Burlington....	Burlington....	25.00	1.00	2.0	1.3	0.33	.....	10
Cayuga.....	Cayuga.....	33.00	1.00	3.2	2.1	0.33	.....	10
Chatham.....	Chatham.....	25.00	1.00	2.0	1.3	0.33	.....	10
Clinton.....	Clinton.....	31.00	1.00	2.9	1.9	0.33	.....	10
Delaware.....	Delaware.....	26.00	1.00	2.2	1.4	0.33	.....	10
Dorchester....	Dorchester....	26.00	1.00	2.2	1.4	0.33	.....	10
Dundas.....	Dundas.....	25.00	1.00	2.0	1.3	0.33	.....	10
Elmira.....	Elmira.....	26.00	1.00	2.2	1.4	0.33	.....	10
Essex.....	Essex.....	27.00	1.00	2.3	1.5	0.33	.....	10
Exeter.....	Exeter.....	30.00	1.00	2.8	1.8	0.33	.....	10
Forest.....	Forest.....	31.00	1.00	2.9	1.9	0.33	.....	10
Guelph.....	Guelph.....	24.00	1.00	2.3	1.5	0.33	10	10
Harrow.....	Harrow.....	28.00	1.00	2.5	1.6	0.33	.....	10
Ingersoll.....	Ingersoll.....	25.00	1.00	2.0	1.3	0.33	.....	10
Kingsville....	Kingsville....	28.00	1.00	2.5	1.6	0.33	.....	10
Kitchener....	Kitchener....	26.00	1.00	2.2	1.4	0.33	.....	10
Listowel.....	Listowel.....	26.00	1.00	2.2	1.4	0.33	.....	10
London.....	London.....	25.00	1.00	2.0	1.3	0.33	.....	10
Lucan.....	Lucan.....	30.00	1.00	2.8	1.8	0.33	.....	10
Markham....	Markham....	26.00	1.00	2.2	1.4	0.33	.....	10
Merlin.....	Merlin.....	28.00	1.00	2.5	1.6	0.33	.....	10
Mitchell.....	Mitchell.....	28.00	1.00	2.5	1.6	0.33	.....	10
St. Catharines.	Niagara.....	23.00	1.00	2.1	1.4	0.33	10	10
Norwich.....	Norwich.....	26.00	1.00	2.2	1.4	0.33	.....	10

INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS

Control office location	Rural operating areas	Basis of rate, 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All additional per kw-hr	Local discount	Prompt payment discount
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Niagara Division—Continued

		\$ c.	\$ c.	cents	cents	cents	%	%
Oil Springs...	Oil Springs...	31.00	1.00	2.9	1.9	0.33	10
Richmond Hill	Rich'd Hill..	26.00	1.00	2.2	1.4	0.33	.....	10
Ridgetown...	Ridgetown...	32.00	1.00	3.1	2.0	0.33	.....	10
St. Thomas...	St. Thomas...	27.00	1.00	2.3	1.5	0.33	.....	10
Stoney Creek..	Saltfleet.....	22.00	1.00	1.9	1.3	0.33	10	10
	Caledonia Section....	25.00	1.00	2.0	1.3	0.33	.....	10
Sarnia.....	Sarnia.....	29.00	1.00	2.6	1.7	0.33	.....	10
Simcoe.....	Simcoe.....	28.00	1.00	2.5	1.6	0.33	.....	10
Stratford.....	Stratford....	26.00	1.00	2.2	1.4	0.33	.....	10
Sutton.....	Sutton.....	28.00	1.00	2.5	1.6	0.33	.....	10
Tillsonburg...	Tillsonburg..	26.00	1.00	2.2	1.4	0.33	.....	10
Wallaceburg..	Wallaceburg..	27.00	1.00	2.3	1.5	0.33	.....	10
Welland.....	Welland.....	20.00	1.00	1.6	1.0	0.33	10	10
West Lorne...	West Lorne...	30.00	1.00	2.8	1.8	0.33	.....	10
Windsor.....	Windsor.....	25.00	1.00	2.0	1.3	0.33	.....	10
Woodbridge...	Woodbridge..	27.00	1.00	2.3	1.5	0.33	.....	10
Woodstock...	Woodstock...	25.00	1.00	2.0	1.3	0.33	.....	10

Southern Ontario System—

Georgian Bay Division

		\$ c.	\$ c.	cents	cents	cents	%	%
Bala.....	Bala.....	25.00	1.00	2.0	1.3	0.33	.....	10
Barrie.....	Barrie.....	30.00	1.00	2.8	1.8	1.33	.....	10
Bracebridge...	Bracebridge..	29.00	1.00	2.6	1.7	0.33	.....	10
Cannington...	Cannington...	31.00	1.00	2.9	1.9	0.33	.....	10
Orillia.....	Hawkestone..	24.00	1.00	2.3	1.5	0.33	10	10
Huntsville...	Huntsville...	28.00	1.00	2.5	1.6	0.33	.....	10
Penetang.....	Midland.....	27.00	1.00	2.3	1.5	0.33	.....	10
Orangeville...	Orangeville...	36.00	1.00	3.7	2.4	0.33	.....	10
Owen Sound...	Owen Sound...	32.00	1.00	3.1	2.0	0.33	.....	10
Shelburne...	Shelburne...	31.00	1.00	2.9	1.9	0.33	.....	10
Stayner.....	Stayner.....	26.00	1.00	2.2	1.4	0.33	.....	10
Uxbridge.....	Uxbridge.....	32.00	1.00	3.1	2.0	0.33	.....	10
Walkerton...	Walkerton...	30.00	1.00	2.8	1.8	0.33	.....	10
Wingham.....	Wingham.....	31.00	1.00	2.9	1.9	0.33	.....	10

**INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS**

Control office location	Rural operating areas	Basis of rate, 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All additional per kw-hr	Local discount	Prompt payment discount
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**Southern Ontario System—
Eastern Ontario Division**

		\$ c.	\$ c.	cents	cents	cents	%	%
Arnprior.....	Arnprior.....	25.00	1.00	2.0	1.3	0.33	10
	Renfrew.....	25.00	1.00	2.0	1.3	0.33	.....	10
Belleville.....	Belleville.....	24.00	1.00	2.3	1.5	0.33	10	10
Bowmanville..	Bowmanville..	26.00	1.00	2.2	1.4	0.33	.....	10
Brockville....	Brockville....	25.00	1.00	2.0	1.3	0.33	.....	10
Carleton Place	Carleton Pl..	24.00	1.00	2.3	1.5	0.33	10	10
Cobourg.....	Cobourg.....	25.00	1.00	2.0	1.3	0.33	.....	10
Delta.....	Delta.....	26.00	1.00	2.2	1.4	0.33	.....	10
Fenelon Falls	Fenelon Falls	28.00	1.00	2.5	1.6	0.33	.....	10
Frankford....	Frankford....	23.00	1.00	2.1	1.4	0.33	10	10
	Brighton....	23.00	1.00	2.1	1.4	0.33	10	10
Kingston.....	Kingston.....	25.00	1.00	2.0	1.3	0.33	.....	10
Lancaster....	Martintown..	33.00	1.00	3.2	2.1	0.33	.....	10
Millbrook....	Millbrook....	28.00	1.00	2.5	1.6	0.33	.....	10
Minden.....	Minden.....	28.00	1.00	2.5	1.6	0.33	.....	10
Napanee.....	Napanee.....	24.00	1.00	2.3	1.5	0.33	10	10
Norwood.....	Norwood.....	31.00	1.00	2.9	1.9	0.33	.....	10
Oshawa.....	Oshawa.....	25.00	1.00	2.0	1.3	0.33	.....	10
Ottawa.....	Ottawa.....	22.00	1.00	1.9	1.3	0.33	10	10
Peterborough.	Peterborough	20.00	1.00	1.6	1.0	0.33	10	10
	Lakefield....	25.00	1.00	2.0	1.3	0.33	.....	10
Picton.....	Picton.....	29.00	1.00	2.6	1.7	0.33	.....	10
Tweed.....	Tweed.....	34.00	1.00	3.4	2.2	0.33	.....	10
Winchester...	Winchester...	26.00	1.00	2.2	1.4	0.33	.....	10

Thunder Bay System

		\$ c.	\$ c.	cents	cents	cents	%	%
Thunder Bay.	Thunder Bay	24.00	1.00	2.3	1.5	0.33	10	10

Northern Ontario Properties

		\$ c.	\$ c.	cents	cents	cents	%	%
Matheson....	Connaught..	40.00	1.00	4.3	2.8	0.33	.....	10
Kagawong....	Manitoulin..	35.00	1.00	3.5	2.3	0.33	.....	10
North Bay...	North Bay...	36.00	1.00	3.7	2.4	0.33	.....	10
Sudbury.....	Sudbury.....	35.00	1.00	3.5	2.3	0.33	.....	10



RURAL ELECTRICAL SERVICE IN ONTARIO

Hydro service enables Ontario farmers to attain a high standard of living

FARM USES FOR ELECTRICITY

The use made of electrical service by farmers divides itself broadly into applications which provide a higher standard of living in the farm home, and applications which add to the productive capacity of a farm. Some applications, for example, lighting and water pumping, do both.

Farming is a productive industry and the ability of electrical service to provide light, heat and power in a wide range of intensities free from the hazards associated with oil or other fuel and the ease with which electricity may be controlled, permit applications to farm production problems not feasible with any other source of power.

These applications result in savings in labour, increased production, improved quality, prevention of waste, reduced costs and substantial increases in earnings.

To the farm home electricity can bring the same conveniences as are enjoyed by urban residents. It eliminates the drudgery of many household tasks, improves health and comfort and, through the radio, furnishes entertainment, news, discussions of current topics and market reports, all of which bring greater contentment in the rural way of life.

In building up his electrical equipment to receive the maximum benefit from Hydro rural service, the farmer should keep a nice balance between appliances for use in the home and appliances which will add to the productive capacity of his farm. It is especially desirable that following the installation of lighting service in the home and outbuildings his early concern should be to purchase equipment which will result in cash returns.

Lighting Service

Electric lighting is safe, convenient and reduces the fire hazard to a minimum. It adds comfort and attractiveness to the farm home. In the barn and other buildings it saves time and prevents accidents while doing chores.

In productive operations it is used in the poultry laying house to supplement daylight during the winter months, thus increasing egg production during a period when prices are highest.

In floriculture lighting may be used to promote or retard the flowering of certain flowering plants in order to meet the demand of special occasions.

Special applications of lighting include insect traps, infra-red lamps for brooders and ultra-violet lamps to improve the health of poultry and other stock.

Heating Service

The safety and ease of control of electricity as a source of heating has found many applications. In the home it makes possible many of the familiar appliances, such as irons, toasters, hot plates, electric ranges and water heaters, all of which add to the comfort and convenience of the home. The ease of automatic control of electric heat has found application in incubators and poultry brooders, where accurate control of temperature is necessary.

Water heaters and dairy sterilizing equipment assist in maintaining a high quality of milk production. Small capacity heaters are used to maintain drinking water at suitable temperature for poultry, with resultant increases in egg production during the winter months. Electric heat also finds application in brooders for pigs and lambs, preventing loss of these animals during cold weather and effecting very substantial savings and increased earnings.

In horticulture electric soil heating is used for the early germination and propagation of seeds and plants and their protection against frost.

Power for Electric Motors

Electric motors find many uses in replacing manual effort. A quarter-horsepower motor can operate any machine that can be operated by hand, thus effecting savings in time and effort.

In the home motors make possible washing machines, ironing machines, vacuum cleaners, fans, furnace blowers, water pumps and refrigerators and the new cold storage home locker for the preservation and storage of perishable foods in quantity. Thus, motors contribute towards making the farm home equal in comfort and convenience to the urban home.

In farming operations electric motors are used for grinding grain and the operation of feed mixers, effecting substantial cash savings. They are also used for pumping water for stock and the operation of milking machines, cream separators and milk coolers. These result in very substantial savings in labor, and increases in production, and permit the handling of larger herds, effecting increases in farm earnings.

Portable utility motors of various sizes find many applications, such as wood cutting, hoisting hay, elevating grain, seed cleaning and, in the workshop, motor-driven grinders and other equipment provide facilities for maintaining farm equipment in repair and facilitate the construction of various pieces of useful equipment in connection with farming operations.



RURAL ELECTRICAL SERVICE IN ONTARIO

Electric milking machines ensure cleaner milk and save greatly on labour

Estimates of the major electrical appliances used in rural operating areas are set out in the following table:

NOTE: Due to war conditions no survey has been made since 1942 as the sale of appliances was considerably curtailed.

ELECTRICAL APPLIANCES IN USE AMONG FARM CONSUMERS IN
RURAL OPERATING AREAS

Data for all systems for the year 1942

On the farm			In the farm home		
Item	Number of appliances	Percentage of saturation	Item	Number of appliances	Percentage of saturation
Motor.....	11,240	18.0	Range.....	11,688	18.7
Pump.....	10,186	16.3	Hot Plates.....	14,921	23.9
Grain grinders.....	4,293	6.9	Washers.....	40,014	64.2
Milking Machine.....	3,920	6.3	Vacuum cleaners.....	10,651	17.1
Milk cooler.....	1,517	2.4	Water heaters, flat rate	2,739	4.4
Cream separator.....	5,302	8.5	Water heaters, metered	1,481	2.4
Churn.....	656	1.1	Grates.....	539	0.9
Incubator.....	828	1.3	Portable air heaters....	4,970	7.9
Brooder.....	1,550	2.5	Ironers.....	938	1.5
Hot Bed.....	56	0.1	Hand Irons.....	50,314	80.7
Water heater, flat rate.	181	0.3	Refrigerators.....	10,913	17.5
Water heater metered..	113	0.2	Toasters.....	35,465	56.9
Miscellaneous.....	861	1.4	Radios.....	49,747	79.8
			Furnace blowers.....	1,393	2.2
			Pumps.....	10,480	16.8
			Miscellaneous.....	2,276	3.6

The following table makes comparison between rural and urban use:—

**ELECTRICAL APPLIANCES IN USE IN HOMES OF URBAN AND RURAL
CONSUMERS—1942**

Electrical appliances	Rural operating area				Urban	
	Hamlet		Farm			
	Number of appliances	Percentage of saturation	Number of appliances	Percentage of saturation	Number of appliances	Percentage of saturation
Ranges.....	7,243	13.4	11,688	18.7	166,498	29.7
Hot Plate.....	13,524	25.0	14,921	23.9	91,260	16.3
Washer.....	28,270	52.2	40,014	64.2	359,428	64.0
Vacuum cleaner.....	9,730	18.0	10,651	17.1	270,067	48.1
Water heater, flat rate..	2,408	4.4	2,739	4.4	75,241	13.4
Water heater, metered..	1,303	2.4	1,481	2.4	75,321	13.4
Grate.....	420	0.8	539	0.9	50,619	9.0
Air heater.....	3,992	7.4	4,970	7.9	62,383	11.1
Irons.....	914	1.7	938	1.5	19,685	3.5
Irons.....	41,751	77.0	50,314	80.7	561,912	100.1
Refrigerators.....	10,184	18.8	10,913	17.5	218,922	39.0
Toasters.....	29,240	53.9	35,465	56.9	439,971	78.4
Radio.....	42,033	77.5	49,747	79.8	577,309	102.8
Furnace blower.....	1,629	2.3	1,393	2.2	62,338	11.1
Grills.....					126,650	22.6
Pump.....	7,112	13.1	10,480	16.8		
Air-conditioner.....					10,202	1.8
Miscellaneous.....	2,532	4.7	2,276	3.6		

RURAL SERVICE STATISTICS 1944 AND 1945

Service	Year	Annual revenue	Kilowatt-hours consumed	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consumption. kw-hr. †
		\$ c.			cents	\$ c.	
Farm service.....	1944	2,396,508. 94	113,706,660	59,639	2.11	3.53	167
	1945	2,606,431. 15	137,194,727	65,141	1.90	3.48	183
Hamlet service.....	1944	1,937,102. 28	82,106,734	56,130	2.36	2.95	125
	1945	2,027,283. 82	92,056,781	58,867	2.20	2.93	133
Commercial service.	1944	341,646. 50	15,010,213	8,262	2.28	3.51	154
	1945	381,570. 09	18,915,619	8,870	2.02	3.72	184
Summer service....	1944	435,622. 43	11,859,662	19,291	3.67	1.93	53
	1945	473,887. 53	14,250,142	20,947	3.33	1.96	59

*It may be observed that the number of consumers reported here does not agree with those shown in other sections of the Annual Report of the Commission. This is due to the fact that the figures given here represent consumers actually billed, but do not include power or special contracts, whereas elsewhere in the Report the tables show the number of contracts executed to the end of the fiscal year. In many cases service is not given until the following year.

1944 estimated—due to reclassification during the year.

HAMLET AND HOUSE LIGHTING SERVICE

Classified as 1B, 1C and 2A from 1928 to 1943

	Annual revenue	Kilowatt- hours consumed	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consump- tion. kw-hr.
	\$ c.			cents	\$ c.	
1928	530,407.00	10,702,031	17,585	4.95	2.51	50.7
1929	663,311.00	14,424,770	21,219	4.60	2.85	62.0
1930	757,558.00	17,815,987	25,013	4.25	2.73	64.2
1931	974,224.17	22,127,474	31,176	4.40	2.88	65.6
1932	1,075,081.03	24,654,386	33,368	4.36	2.76	63.3
1933	1,133,368.70	25,410,470	35,941	4.46	2.70	60.1
1934	1,149,876.67	27,768,460	37,466	4.14	2.61	63.0
1935	1,171,873.28	30,802,290	39,751	3.80	2.53	66.5
1936	1,239,010.83	35,666,241	43,014	3.47	2.49	71.8
1937	1,331,919.46	40,935,040	46,785	3.25	2.47	76.0
1938	1,439,681.39	47,612,820	52,514	3.02	2.42	79.9
1939	1,649,496.29	54,787,544	58,328	3.01	2.36	78.3
1940	1,812,550.53	60,839,240	62,973	2.98	2.40	80.5
1941	1,995,468.46	67,587,082	67,939	2.95	2.45	82.9
1942	2,118,911.57	72,613,472	69,766	2.92	2.56	87.9
1943	2,170,221.41	73,980,871	70,919	2.93	2.57	87.6

FARM SERVICE

Classified as 2B, 3, 4, 5, 6A, 6B, 7A and 7B

from 1928 to 1943

Year	Annual revenue	Kilowatt- hours consumed	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consump- tion. kw-hr.
	\$ c.			cents	\$ c.	
1928	569,007.00	10,969,828	9,309	5.18	4.97	96
1929	777,736.00	16,022,842	12,605	4.85	5.85	121
1930	863,805.00	20,507,063	16,011	4.21	5.03	119
1931	1,128,554.28	25,716,141	20,796	4.39	5.11	116
1932	1,255,482.13	28,675,400	22,432	4.38	4.84	110
1933	1,309,122.96	30,062,194	23,283	4.35	4.75	109
1934	1,319,922.69	33,312,314	23,882	3.96	4.66	118
1935	1,343,222.39	37,667,453	25,357	3.57	4.55	128
1936	1,385,784.39	45,447,669	28,198	3.05	4.31	141
1937	1,366,484.50	54,858,240	35,508	2.49†	3.57	144†
1938	1,711,788.81	67,886,882	44,565	2.52†	3.56	141†
1939	2,090,259.14	81,613,087	53,240	2.56†	3.56	139†
1940	2,405,092.40	93,859,719	58,728	2.56†	3.41	133†
1941	2,690,250.37	107,061,610	63,304	2.51	3.54	141
1942	2,870,300.31	116,448,363	63,748	2.46	3.75	152
1943	2,934,011.31	121,428,714	64,292	2.42	3.81	158

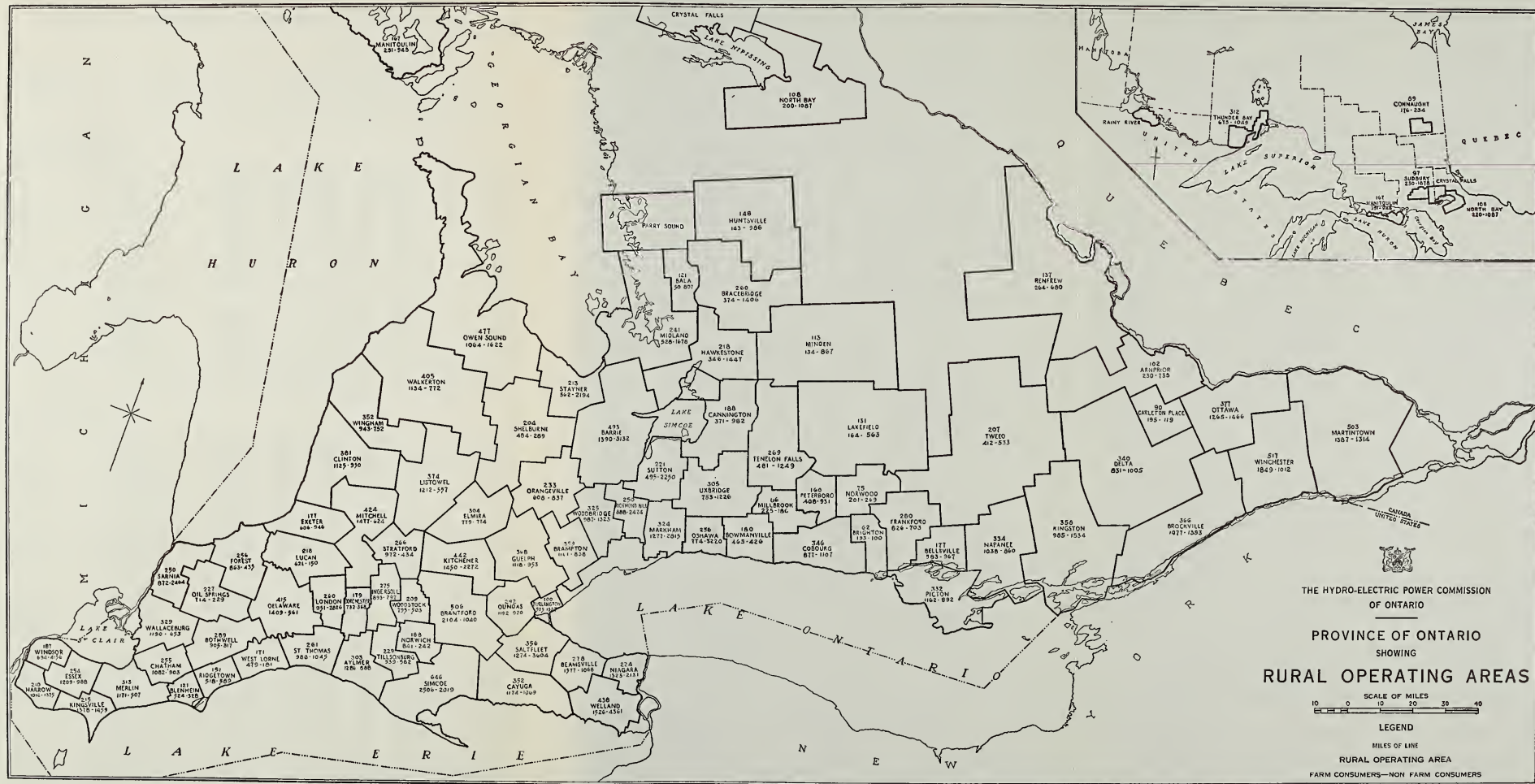
* See footnote to table on previous page.

† In the period 1937 to 1940, there was an increase in the statistical average revenue per kilowatt-hour and a decrease in the statistical average monthly consumption per consumer. Actually there was a great increase in the use of electricity by nearly all individual Hydro consumers and a corresponding decrease to each consumer in the average cost per kilowatt-hour. But due to the tremendous growth at this time in new consumers, who for the first few years are not equipped to use large quantities of electricity each month, the smaller monthly consumption of the new consumers when averaged with the increased use of the older consumers produced per consumer averages which obscured the true trends of individual growth in use, and, individual reductions in costs.

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1946

Control office location	Rural operating area	Miles of line	Number of consumers					
			Farm	Ham-let	Com-mercial	Sum-mer	Power	Total
Southern Ontario System— Niagara Division								
Aylmer.....	Aylmer.....	303.49	1,286	622	150	113	3	2,174
Beamsville.....	Beamsville.....	277.61	1,577	758	145	147	18	2,645
Blenheim.....	Blenheim.....	121.47	524	199	42	83	4	852
Bothwell.....	Bothwell.....	289.33	905	201	101	.....	15	1,222
Brampton.....	Brampton.....	358.70	1,161	607	96	123	12	1,999
Brantford.....	Brantford.....	505.77	2,104	857	159	13	11	3,144
Burlington.....	Burlington.....	100.37	505	1,188	78	33	28	1,832
Cayuga.....	Cayuga.....	352.19	1,174	580	167	304	18	2,243
Chatham.....	Chatham.....	255.25	1,082	774	113	.....	16	1,985
Clinton.....	Clinton.....	380.91	1,125	548	153	246	3	2,075
Delaware.....	Delaware.....	415.48	1,409	404	152	.....	5	1,970
Dorchester.....	Dorchester.....	179.06	732	276	78	3	11	1,100
Dundas.....	Dundas.....	292.35	1,192	794	119	.....	7	2,112
Elmira.....	Elmira.....	303.97	779	633	110	15	16	1,553
Essex.....	Essex.....	254.42	1,209	538	85	337	8	2,177
Exeter.....	Exeter.....	176.98	606	333	89	517	7	1,552
Forest.....	Forest.....	256.02	863	96	51	281	7	1,298
Guelph.....	Guelph.....	368.58	1,118	728	120	94	11	2,071
Harrow.....	Harrow.....	210.07	1,016	415	68	888	4	2,391
Ingersoll.....	Ingersoll.....	274.97	893	237	55	1	4	1,190
Kingsville.....	Kingsville.....	214.66	1,378	483	97	871	8	2,837
Kitchener.....	Kitchener.....	441.93	1,450	1,886	199	148	39	3,722
Listowel.....	Listowel.....	373.89	1,212	425	126	1	5	1,769
London.....	London.....	259.76	951	2,650	160	4	12	3,777
Lucan.....	Lucan.....	215.63	621	86	64	.....	.....	771
Markham.....	Markham.....	324.30	1,277	1,898	157	739	21	4,092
Merlin.....	Merlin.....	313.04	1,171	260	109	130	8	1,678
Mitchell.....	Mitchell.....	423.76	1,477	474	140	.....	10	2,101
St. Catharines.....	Niagara.....	224.15	1,323	1,811	149	149	22	3,454
Norwich.....	Norwich.....	187.79	841	185	50	.....	7	1,083
Oil Springs.....	Oil Springs.....	226.84	714	140	84	1	4	943
Richmond Hill.....	Richmond Hill.....	249.53	888	2,016	158	273	27	3,362
Ridgetown.....	Ridgetown.....	151.36	518	181	44	361	3	1,107
St. Thomas.....	St. Thomas.....	261.02	986	916	118	7	4	2,031
Stoney Creek.....	Saltfleet.....	355.92	1,274	3,074	221	275	34	4,878
Sarnia.....	Sarnia.....	250.27	872	1,707	134	616	7	3,336
Simcoe.....	Simcoe.....	646.07	2,506	1,159	232	619	9	4,525
Stratford.....	Stratford.....	266.39	972	342	88	.....	4	1,406
Sutton.....	Sutton.....	220.63	495	696	89	1,452	13	2,745
Tillsonburg.....	Tillsonburg.....	228.70	939	473	95	1	13	1,521
Wallaceburg.....	Wallaceburg.....	329.19	1,190	431	125	89	8	1,843
Welland.....	Welland.....	437.66	1,526	3,237	253	825	46	5,887
West Lorne.....	West Lorne.....	170.58	479	123	45	12	1	660
Windsor.....	Windsor.....	187.00	694	3,935	201	.....	20	4,850
Woodbridge.....	Woodbridge.....	324.51	987	1,046	149	104	24	2,310
Woodstock.....	Woodstock.....	208.67	795	406	89	2	6	1,298
Total Niagara division.....		13,170.24	48,796	40,828	5,507	9,877	563	105,571



RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1946

Control office location	Rural operating area	Miles of line	Number of consumers					
			Farm	Ham-let	Com-mercial	Sum-mer	Power	Total
Southern Ontario System— Georgian Bay Division								
Bala.....	Bala.....	121.10	50	225	41	540	1	857
Barrie.....	Barrie.....	492.97	1,390	1,042	194	1,893	3	4,522
Bracebridge.....	Bracebridge.....	260.25	374	390	78	934	4	1,780
Cannington.....	Cannington.....	188.17	371	250	70	660	2	1,353
Orillia.....	Hawkestone.....	218.39	346	443	70	926	8	1,793
Huntsville.....	Huntsville.....	147.61	143	573	108	299	6	1,129
Penetang.....	Midland.....	240.50	528	324	61	1,293	.....	2,206
Orangeville.....	Orangeville.....	233.03	608	581	147	103	6	1,445
Owen Sound.....	Owen Sound.....	476.65	1,064	860	211	548	3	2,686
Shelburne.....	Shelburne.....	204.19	484	231	51	7	.....	773
Stayner.....	Stayner.....	213.41	562	360	76	1,756	2	2,756
Uxbridge.....	Uxbridge.....	304.77	753	634	122	467	3	1,979
Walkerton.....	Walkerton.....	405.44	1,134	458	161	151	2	1,906
Wingham.....	Wingham.....	352.44	943	428	145	176	3	1,695
Total Georgian	Bay division.....	3,858.92	8,750	6,799	1,535	9,753	43	26,880

Southern Ontario System—
Eastern Ontario Division

Arnprior.....	Arnprior.....	102.43	230	534	118	72	11	965
	Renfrew.....	136.83	264	524	103	47	6	944
Belleville.....	Belleville.....	177.49	583	849	99	13	6	1,550
Bowmanville.....	Bowmanville.....	179.53	465	342	52	29	3	891
Brockville.....	Brockville.....	366.00	1,077	871	237	278	7	2,470
Carleton Place....	Carleton Place....	90.36	195	57	29	32	1	314
Cobourg.....	Cobourg.....	345.93	877	643	140	322	2	1,984
Delta.....	Delta.....	340.02	831	551	167	282	5	1,836
Fenelon Falls.....	Fenelon Falls.....	268.88	481	246	86	913	4	1,730
Frankford.....	Frankford.....	280.38	826	517	98	84	4	1,529
	Brighton.....	61.88	193	80	18	1	1	293
Kingston.....	Kingston.....	357.81	985	1,004	240	282	8	2,519
Lancaster.....	Martintown.....	502.75	1,387	1,000	233	79	2	2,701
Millbrook.....	Millbrook.....	85.92	225	150	32	4	.....	411
Minden.....	Minden.....	112.54	134	490	102	274	1	1,001
Napanee.....	Napanee.....	333.83	1,038	604	163	87	6	1,898
Norwood.....	Norwood.....	74.56	201	115	18	133	3	470
Oshawa.....	Oshawa.....	256.35	774	2,774	178	257	11	3,994
Ottawa.....	Ottawa.....	377.25	1,265	1,100	249	92	25	2,731
Peterborough.....	Peterborough.....	160.46	408	589	69	267	6	1,339
	Lakefield.....	130.88	164	214	51	296	2	727
Picton.....	Picton.....	332.10	1,162	547	132	210	3	2,054
Tweed.....	Tweed.....	206.60	412	317	77	138	1	945
Winchester.....	Winchester.....	517.80	1,849	750	239	17	6	2,861
Total Eastern	Ontario division....	5,798.58	16,026	14,868	2,930	4,209	124	38,157

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1946

Control office location	Rural operating area	Miles of line	Number of consumers					
			Farm	Ham-let	Com-mercial	Sum-mer	Power	Total
Thunder Bay System								
Port Arthur.....	Thunder Bay.....	312.30	675	754	84	199	12	1,724

Northern Ontario Properties

Matheson.....	Connaught.....	89.00	176	185	38	8	3	410
Kagawong.....	Manitoulin.....	167.36	251	640	207	91	7	1,196
North Bay.....	North Bay.....	108.16	200	691	62	328	6	1,287
Fort Frances.....	*Rainy River.....	61.50	95	121	34	.....	2	252
Sudbury.....	Sudbury.....	96.52	250	1,646	82	145	5	2,128
Total Northern Ontario Properties.		522.54	972	3,283	423	572	23	5,273

* All lines under construction—no service given during 1946.

SUMMARY

System	Miles of line	Number of consumers					
		Farm	Ham- let	Com- mercial	Sum- mer	Power	Total
Southern Ontario							
Niagara division.....	13,170.24	48,796	40,828	5,507	9,877	563	105,571
Georgian Bay division.....	3,858.92	8,750	6,799	1,535	9,753	43	26,880
Eastern Ontario division.....	5,798.58	16,026	14,868	2,930	4,209	124	38,157
Southern Ontario totals.....	22,827.74	73,572	62,495	9,972	23,839	730	170,608
Thunder Bay.....	312.30	675	754	84	199	12	1,724
Northern Ontario Properties.....	522.54	972	3,283	423	572	23	5,273
Total all systems..... *	23,662.58	75,219	66,532	10,479	24,610	765	177,605

* These totals include 904.78 miles of primary line under construction on October 31, 1946, and service to 4,243 new consumers which was not completed at the end of the fiscal year.

SECTION V

PROMOTIONAL AND PUBLICITY SERVICES

DURING the first full year following the conclusion of the war, the promotional and publicity services of the Commission were affected by the prevailing shortages of material and the corresponding shortage of power supply. Consequently these activities were carried out with such conditions in mind.

Advertising and Publicity

An active programme of advertising and publicity of the informative and educational type was produced. Advertisements were designed and published in approximately 235 papers, giving a total of rather more than 5,000 messages to the public. These advertisements were designed to give information on matters of public interest and to encourage the careful use of electricity to obtain the best results from the available supplies.

Pamphlets and folders giving information for consumers were produced, and distributed through the municipal Hydro commissions. The publication of "Hydro News" was continued, and its mailing list enlarged.

Motion Pictures

A new picture entitled "Niagara the Powerful" was completed. It is of an educational character and deals with power developments at Niagara Falls. All of the Commission's motion pictures were given wide distribution during the year, being shown to approximately 750 audiences, or about 85,000 people.

Rural Activities

Portable educational displays illustrating proper wiring for the average Ontario farm were prepared and used generously at fall fairs and plowing matches. They enabled the Commission to explain to rural consumers the advantages of adequate wiring for full economic use of Hydro service.

Industrial Services

Technical assistance and engineering services were given through the municipal systems to their industrial consumers. Thirty-five plant surveys were made covering such phases of power application as efficient distribution.



ADEQUATE WIRING

Portable rural display illustrating proper wiring for Ontario farms

proper motor loading and power factor improvement. Much technical assistance was given to municipal Hydro systems concerning the application and use of electricity in industrial plants. Co-operation was maintained with the Ontario Department of Planning and Development and with industrial commissions of various municipalities in order to aid and encourage industries desiring to establish plants in Ontario. Close contact was maintained with electrical maintenance and service clubs, and illustrated semi-technical talks on efficient power application were provided for such organizations.

Lighting Service

Lighting plans were provided for both commercial and industrial consumers, but a large proportion of this work was devoted to school lighting. Recommended plans were supplied to approximately 400 schools throughout the Province. In addition, a research installation was made in one of the Toronto area schools in order to provide information linking adequate lighting in the school with the welfare, health and development of the pupil. It is expected that data of substantial value will be obtained.

Electric Service League

At the request of the municipal Hydro systems, arrangements were completed for the development of an "adequate wiring" programme to cover the greater part of Ontario. In order to do this effectively, the Electric Service League of Ontario, comprising in its membership the Commission and the associated municipal systems, together with electrical manufacturers, distributors, contractors and dealers, was formed in 1946. As a result, all arrangements have been completed for the necessary training schools, and literature, advertising, training school material and similar equipment have been provided. It is expected that this programme will be launched in detail during 1947 and will first cover the areas served by the Southern Ontario system.

Lamps and Merchandising

The Research Water Heating Committee presented its final report in 1946. This was approved by the Commission and arrangements were completed for the manufacture of approximately 5,000 of the improved new type flat-rate water heaters to be available in 1947 for the use of municipal systems.

Merchandising operations in connection with the Northern Ontario Properties were improved by a somewhat increased supply of appliances and equipment. Lamp sales to Hydro municipalities showed a substantial increase, and the discount schedule to all municipalities was reviewed and inequalities eliminated. In addition facilities for the supply of Hydro lamps were extended to the rural districts.

Other Activities

Priority and war equipment problems disappeared with the dropping of government restrictions, but sales tax regulations affecting certain types of equipment still required attention. Negotiations with Ottawa resulted in the elimination of the 8 per cent sales tax on certain equipment for the generation and production of electric power, with a consequent saving to all utility systems. Problems relating to standardization of frequency in the Southern Ontario system, particularly in the field of consumer equipment changeover received attention.

SECTION VI

HYDRAULIC ENGINEERING AND CONSTRUCTION

CONSTRUCTION of new power developments and rehabilitation of structures in existing plants, deferred until after the end of the war, were commenced at many places during the current year. The volume of work under way is immensely greater than for some years past and extends to all parts of the Province.

Four major developments were under construction: at DeCew Falls; at Stewartville near Arnprior; on the Aguasabon river; and at Des Joachims on the Ottawa river. In addition to these, a fourth unit is being installed in the Ear Falls plant on the English river. The total capacity of the developments in progress is 575,000 horsepower, and there are indications that construction at other sites must commence in the near future.

Reference is made hereunder to various developments at which deferred work has been undertaken and of new sites at which investigations and preliminary designs have advanced.

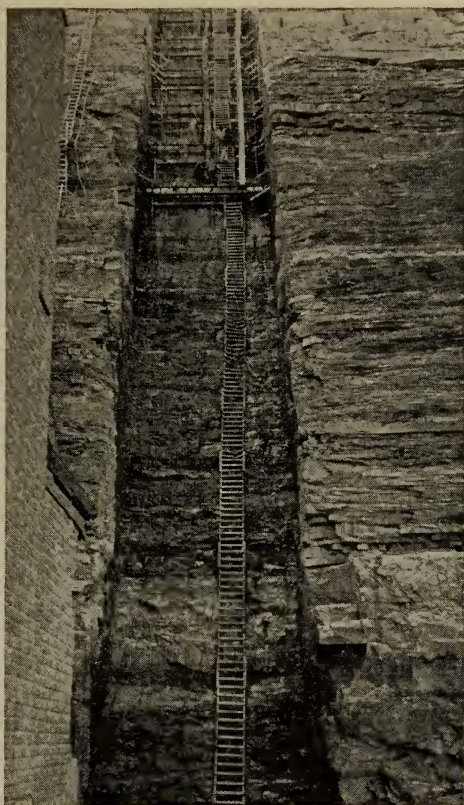
SOUTHERN ONTARIO SYSTEM

DeCew Falls Development

The reference to this development in the last Annual Report outlined very briefly the revisions in the general scheme that are being made along with the installation of the second unit. These revisions were contemplated for the most part when the first unit was installed, and consist of the enlargement of facilities that will be necessary when the second unit comes into service.

The plant has been referred to, at times, as a peak load plant. This necessitates the storage of water during periods of low load demand at night and over the week-end. The storage facilities in the reservoirs known as lake Gibson and lake Moody are being extended by increasing the range of level by about four feet to elevation 560.

When the first unit was installed an intake structure to handle all water supply for the development was built. The original intake at Allanburg, built over forty years ago, is being taken out of service completely and replaced by an earth dam, which will form part of the bank of the Welland



DECEW FALLS DEVELOPMENT

Trench excavated in cliff for reception of penstock No. 2



DECEW FALLS DEVELOPMENT

Excavation in Twelve Mile creek near powerhouse



DECEW FALLS DEVELOPMENT

Installation of 16-foot steel penstock in prepared trench

Ship canal. Another small intake known as the Government weir, also at Allanburg, is being strengthened and improved. The water supply for the City of St. Catharines will continue to be drawn through this structure.

In the reservoir area, certain road diversions are necessitated by the higher reservoir levels and four new highway bridges must be built. In addition a diversion of the Niagara-St. Catharines & Toronto Railway and the construction of a bridge carrying it is required. The reservoir canal is also being widened and deepened to cope with the increase in flow demanded by the enlarged plant.

The structure of the power house extension is quite similar in design to that of Unit No. 1, as also are the penstocks and turbine. No further description of these is required therefore than that given in an earlier report.

A gain in head of about 12 feet is being secured by deepening and widening Twelve Mile creek, which forms the tailrace of the plant as far as St. Catharines. This involves the construction of a loose rock weir between the 25-cycle and 66-cycle plants in order to maintain the present tailwater



STEWARTVILLE DEVELOPMENT—MADAWASKA RIVER
Looking up stream towards site of dam and powerhouse



STEWARTVILLE DEVELOPMENT—MADAWASKA RIVER
Portal of tunnel diverting river flow during construction of dam

levels at the latter. Certain improvements are being made in the channel of the Second Welland canal from place to place, as far downstream as Port Dalhousie to convey the increased flow in these channels. Another item of magnitude in connection with the tailrace channels is the reconstruction of the main-line bridge of the Canadian National Railways over Twelve Mile creek to enable an enlargement of the channel to be made at that point.

At the end of the fiscal year the canal, road diversions and bridges in the reservoir area were approaching completion; penstock erection was about half completed; turbine erection was proceeding; excavation was proceeding satisfactorily in Twelve Mile creek; and the work on the Canadian National Railway crossing was progressing. The plant is scheduled to come into service in September, 1947.

Niagara River Remedial Weir

The work on the Niagara river remedial weir was completed in 1945, but it was considered that the cableway used in its construction should be left in place until a full year's observation of the behavior of the weir had been made. Observations of water levels in the river upstream from the weir and their analysis having indicated that the amount of increase in water level secured was substantially that which the weir was designed to give, the decision was reached to remove the cableway and other equipment. Work of drawing the cables proceeded in the fall months after some preliminary work was completed on the United States side of the river to give access to the tail tower of the cableway. Thereafter the head tower of the cableway was dismantled and, with the cables and operating equipment, removed to storage. This work was approaching completion at the end of the fiscal year. Roads and park lands will be rehabilitated in the early months of 1947.

Niagara River Power Plants

At the Queenston power plant some work was carried out at the river level to protect the railway embankment, and concrete protective work on the cliff was commenced north of the power house at elevation 297.

A new lock gate was designed for the navigation entrance in the Queenston intake structure. The original gate was of timber construction and had deteriorated to such an extent that it had to be replaced; the new one will be a steel gate. In the meantime, until material can be secured for the steel gate, scows supporting a timber curtain wall have been moored in the entrance to prevent ice entering the canal.

Inspections were made of the Ontario Power Conduit No. 1, and of parts of the Toronto Power plant and minor repairs carried out at the latter.

Long Lake and Ogoki Diversions

A series of measurements of discharge were made below the control dam on the Long lake diversion project and new rating tables developed. A control weir, to be built below the rating section, was designed. Further rating measurements were also made at the Ogoki diversion project.



STEWARTVILLE DEVELOPMENT—MADAWASKA RIVER

Looking downstream toward lower cofferdam, dam foundation on left, excavation for dam in centre. November, 1946

Georgian Bay Division

Further studies were made of the Go Home, Sandy Falls and Flat Rock sites on the Muskoka river, and drawings completed showing the proposed layouts. Repairs were made to the dam at the South Falls development, and inspections were made of the turbine equipment at the South Falls, Hanna Chute, Tretheway Falls and Big Eddy developments.

At the site of the old Southampton plant, the residue of the main dam and cribwork was removed from the stream, and used as fill to protect the right bank of the river; the plant buildings, of concrete construction, were razed, and the site graded and left in a neat condition.

Stewartville Development

In eastern Ontario construction work at the Stewartville development was in progress. The new development is situated approximately eight miles southwest of Arnprior, on the Madawaska river, and will have an installed capacity of 81,000 electrical horsepower, produced under a head of 150 feet. It is expected that the plant will be in operation in the spring of 1948.

The development comprises a concrete dam of gravity type with a maximum height of some 200 feet and 850 feet long, a headworks incorporated in the north end of the dam, and three 14-foot steel penstocks approximately 190 feet long that convey the water to three Francis type turbines in the power house at the base of the dam. A sluiceway provided with two 35-foot sluice gates and two 14-foot sluices will be placed at the south end of the dam and will discharge during the flood period into a highwater channel on the south bank of the river. Concrete training walls will direct the flood waters

to the exit channel of the diversion tunnel, in which baffle piers will absorb much of the energy of the water before it re-enters the tailrace channel and river.

To de-water the power site the river has been diverted through a tunnel 30 feet in diameter and 500 feet long, excavated under the site of the sluiceway section. The downstream cofferdam was completed and the upstream cofferdam was being raised to cope with the spring floods. The tunnel will be closed later by steel gates at the entrance portal and for final closure a concrete plug will be poured downstream from the control structure.

At the end of the fiscal year, approximately 80 per cent of the earth excavation for the main dam and power house was completed; the rock excavation for the main dam section was about 40 per cent completed; the rock excavation for the power house substructure was under way; and the installation of the concrete mixing plant and the stationary section of the concrete conveyor system for the main dam was nearing completion.

Des Joachims Development

Preliminary work prior to active construction was progressing at the Des Joachims power site on the Ottawa river at the end of the fiscal year. The development will have an initial installation of 360,000 horsepower in six units, with provision for two additional units, the turbines being rated at 62,000 horsepower under a head of 130 feet. Power from two units is expected to be available early in 1950.

The main dam, of the gravity type, will be built at the head of the Rapides des Joachims, it will be approximately 2,500 feet long with a maximum height of about 150 feet. From the headworks incorporated in the dam, 22-foot diameter penstocks will convey the water to the units in the power house at the base of the dam. The tailrace, to be excavated through the Rapides des Joachims, will be approximately 7,000 feet long, 150 feet wide and about 30 feet in depth, and is required to develop the fall in these rapids from the power house site to the Deep River section of the Ottawa river.

An auxiliary dam, of the gravity type, adjacent to and north of the main dam, will be approximately 1,300 feet long, with a maximum height of about 45 feet.

About a mile and a half to the north of the Ottawa river upstream from the main dam is a small valley parallel to the main stream containing a lake known as McConnell lake. This small waterway will be used as a flood discharge channel; it will require a control dam at its western end, where the raised level of the water above the main dam would otherwise spill over into the valley, and channel enlargement at the eastern end where McConnell lake discharges by a small stream into the Deep River section of the Ottawa river.

The McConnell Lake control dam, also of the gravity type, will be approximately 1,600 feet long, with a maximum height of about 105 feet. It will incorporate forty 16-foot stop-log sluices and six 40-foot sluiceways provided with steel gates.



STEWARTVILLE DEVELOPMENT—MADAWASKA RIVER

Commencement of dam construction, showing form work and concrete plant

The raising of the water level of the Ottawa river to elevation 500 will make it necessary to clear about 11,000 acres of land between the site and the village of Mattawa, a distance of 57 miles upstream, and to relocate or raise 22.5 miles of railway trackage and 12 miles of provincial highway. Major items of construction include estimated quantities of 2,600,000 cubic yards of material to be excavated, of which 90 per cent is rock, and 800,000 cubic yards of concrete.

Barrett Chute Development

The turbine runner of Unit No. 1 at the Barrett Chute plant was replaced by a new runner of improved design, supplied by the turbine builder. Tests conducted in September, 1946, showed a 7 per cent increase in capacity and a slightly higher efficiency than the original runner.

THUNDER BAY SYSTEM

Aguasabon Power Development

Increasing demands for power in the areas served by the Thunder Bay system, make it necessary to provide new generating facilities. The most recent project now under construction is the Aguasabon development on the shore of Terrace bay near Schreiber and about 70 miles east of the Nipigon river. The waters from the Long lake diversion project flow to lake Super or by way of the Aguasabon river, which falls steeply in the latter part of its course before reaching the lake. The natural run-off of the river when controlled by storage and augmented by the larger supply from Long lake will give a dependable flow of 1,100 cubic feet per second.

Besides the existing Kenogami and Long Lake control dams, there will be the main dam, a concrete structure near the mouth of the Aguasabon river and, about midway between the main dam and Long lake, a concrete control dam to develop storage on Lower lake. By means of the main dam, the headwater level will be raised to elevation 900, and slackwater will extend thence almost to the intermediate control dam. The head pond will flood an area extending westerly a distance of two miles from the dam, the southerly limit of the basin thus formed being a natural ridge along the northerly side of Terrace Bay on Lake Superior. The intake for the power plant will be located in this part of the headpond and from the intake a tunnel will be driven through the ridge to the power house site on the shore of Terrace bay.

The intermediate storage dam, to be called Aguasabon lake control dam, will regulate storage through a range of 40 feet between elevations 940 and 980. At the latter elevation the water surface will extend upstream to the Long lake control dam.

The tunnel leading to the power house will be 15 feet in diameter, concrete-lined and 3,400 feet long. From the lower portal a steel penstock of the same diameter will extend about 100 feet to a "Y" section with branches leading to the two turbines in the power house. The turbines are rated at 27,500 horsepower each, under a head of 290 feet, and will run at 257 revolutions per minute. The tailwater will be at lake Superior level, approximately elevation 601.

A surge tank will be built 480 feet upstream from the power house, will be 250 feet high and will be connected to the tunnel through a vertical shaft in rock 100 feet in height.

A pulp and paper mill and town site are being built on the shore of the new head pond by the Long Lac Pulp and Paper Company.

The development will form a part of the Commission's power supplies for the Thunder Bay system and will be connected to the existing network by a transmission line some 70 miles in length.

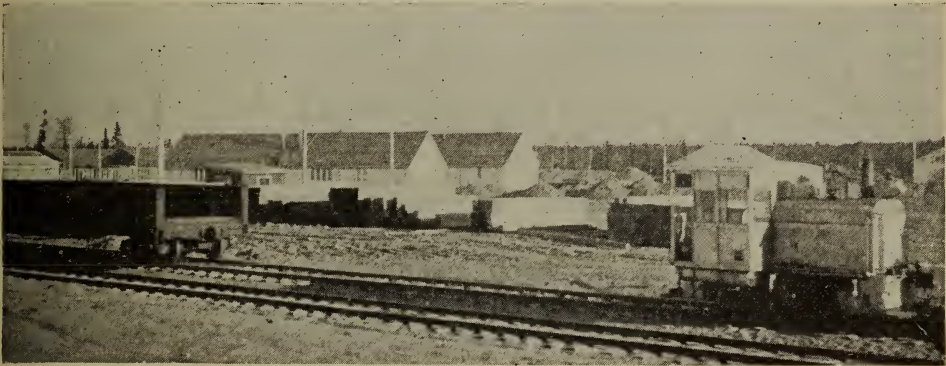
At the end of the fiscal year camps had been built, roads to the power house site and the Aguasabon lake control dam were under construction, and excavation was progressing at the intake site.



DES JOACHIMS DEVELOPMENT—OTTAWA RIVER

Records of water levels are an essential part of preliminary data. Water level gauges of this type were installed at many points along the river

At Pine Portage on the Nipigon river, surveys and investigations of foundations at the damsite were proceeding. Further investigations of the Dog lake site on the Kaministiquia river were made and the power possibilities of the Pigeon river were studied.



AGUASABON DEVELOPMENT—THUNDER BAY DISTRICT

Construction camp on the shores of Terrace bay near mouth of Aguasabon river

NORTHERN ONTARIO PROPERTIES

Abitibi District

A road between the highway near Connaught and the Frederick House dam was completed. The highway along the south shore was raised, and a number of property settlements negotiated in connection with the regulation of Frederick House lake to a higher level for storage purposes.

Preliminary estimates were made of the cost of developments at various sites on the Abitibi, Mattagami and Groundhog rivers.

Sudbury and Nipissing Districts

Detailed investigations of the power sites on the Mississagi river continued. This river, flowing into lake Huron about 100 miles west of Sudbury, possesses great advantages as a source of energy to meet the growing needs of the power market in the Sudbury district and, by interconnection, the whole area served by the Timiskaming and Abitibi district also. The river has a well sustained flow, good storage possibilities, and a steep gradient. Four power sites have been studied, both in field and office, and the one known as the Tunnel site is indicated as that most advantageous for the initial development. Here a head of 215 feet is available, at which present proposals provide for the installation of units to develop 56,000 horsepower. The studies of this and other sites are proceeding.

At Crystal Falls on the Sturgeon river, a sluiceway floor and stop-log sill were rebuilt of concrete in the north channel dam, where erosion had undermined the old sill.

Timiskaming District

At Hound Chute a training crib of rock-filled timber construction was rebuilt from low water level up, to provide protection from erosion for the shore at the right bank of the spillway dam.

At Indian Chute, concrete gravity sections were built to strengthen the slab construction of the dam at the wood-stave pipe intake bays. Eroded portions of the piers were repaired, and the pipe saddles renewed where necessary.

The intake of the Matabitchuan power house was de-watered and the interior wall treated with water-proofing material to reduce leakage. A concrete blanket was added to the face of portions of the wing dams. An undertaking was made with the Department of Highways to share the cost of improving the road to the plant, including the reconstruction of a timber bridge over the Montreal river.

Patricia District

Work commenced in September on the installation of the fourth and last unit in the Ear Falls plant at the outlet of lac Seul on the English river. Restoration of mining operations, curtailed during the war at many points in the district, along with new projects requiring power, indicate that the power demand may soon exceed the present capacity of the power sources. The fourth unit is similar to Unit No. 3 and will have a capacity of 7,500 horsepower, making the total installed capacity of the plant 25,000 horsepower. At the end of the fiscal year a contract had been executed for the turbine and governor, detailed design was proceeding, and construction material and equipment were being delivered to the site by water transportation.

Work on the replacement of Unit No. 1 in the Rat Rapids plant on the Albany river, destroyed by fire some years ago, was undertaken in the latter part of the year. The unit will be restored to service in November.



EAR FALLS DEVELOPMENT—ENGLISH RIVER

A new unit, No. 4, is being installed at the right of the present powerhouse shown above

Hydraulic Investigations

As in the previous year, activities in the field were widespread and numerous and extended to various potential sources of power supply, particularly in the eastern and northern parts of the Province.

Routine collection of hydrometric data was extended by the establishment of twenty new snow survey stations.

Inspections of structures were made at numerous power plants and storage dams throughout the Province and reports prepared regarding their condition.

SECTION VII

ELECTRICAL ENGINEERING AND CONSTRUCTION

FOLLOWING the cessation of hostilities in 1945 an unexpected demand developed for additional power. Prospective loads indicate a high rate of growth for some time to come. This increased power demand follows a period when the Commission's systems were stressed to carry the war load, and when normal operating reserves could not be adequately maintained. The new generating and frequency-changer stations, and the related transmitting, transforming and distributing capacity, authorized by the Commission to give relief, have resulted in an unprecedented volume of work in design and construction, reflected not only in the Commission's organization, but also in the organizations of manufacturers furnishing the necessary materials and apparatus.

Partly because of unavailability of additional staff for the volume of work in hand, but mainly because of the time required to obtain deliveries of equipment and material, abnormally long periods have been required to get new projects into service. Many revisions in construction time schedules have been necessary, and the in-service dates of some of the projects scheduled in last year's report for completion in 1946 have had to be deferred until 1947.

Planning

Very extensive studies were made in connection with a report on the standardization of frequency at 60 cycles for the Southern Ontario system and on the effect such conversion would have on system plans. Work was continued on the projection of system plans into the future, and the provision and integration of a network to absorb a large block of new generation.

Many studies were made to obtain the best use of existing facilities, and to develop the most practical methods of providing relief as quickly as possible. As a result of these studies various new projects were authorized. For example, authorization was granted for the construction of a 230,000-volt transmission line, to be initially operated at 115,000-volts, from the Niagara Falls area to the vicinity of London. A main switching station, with provision for transformers, is planned at each line terminal. The purpose of this line is to relieve excessively overloaded transmission facilities on a portion of the Southern Ontario system, and, at the same time, to provide facilities required in the working out of a flexible and comprehensive long-term plan.

An investigation was made to determine the additional facilities required to improve voltage conditions on the Eastern Ontario and Georgian Bay divisions of the Southern Ontario system. Used synchronous equipment immediately available is being purchased to provide some measure of relief.

The Commission's network calculator has been in constant use in connection with the foregoing and other studies. The extension ordered in 1945 for the calculator is much needed, but delivery has been unavoidably delayed until 1947.

To provide data for analysis of the respective systems, automatic oscillographs were installed at Chats Falls and will shortly be installed at Cameron Falls generating station for the Thunder Bay system and at Abitibi Canyon generating station for the Northern Ontario Properties.

New Generating Capacity

New generating stations were authorized at Des Joachims on the Ottawa river and at Terrace bay at the mouth of the Aguasabon river. A third generating unit was authorized at Stewartville, the new generating station on the Madawaska river, and a fourth generating unit at Ear Falls.

Increased Transformer Capacity

Increased loads have necessitated a rapid expansion in distribution facilities.

At the end of this section is given a tabulation of the transformer and distributing stations where, to accommodate load conditions, changes in transformer capacity were completed during the year. A number of the stations listed are new.

Many new transformers were placed in service and many existing transformers were transferred through system reserve stores to other stations. A number of old transformers were transferred to salvage stores; these were mostly of indoor type and obsolete design, they had been in service for 30 years or more and could not be economically rehabilitated. A number of these salvaged transformers, however, are being utilized for the supply of power for construction work. Those that failed in service are being scrapped.

In addition to transformer changes actually completed, many new stations are being constructed and additional transformer capacity is being installed in existing stations. For example, in the Southern Ontario system, about 31 new distributing stations are at present either in the design stage or under construction; and distributing stations now being constructed or being altered will, when completed, increase existing distributing station capacity by approximately 35,000 kva.

Acquired Properties

The sub-stations and transmission lines formerly supplying power to Defence Industries, Ltd. plants at Nobel and Ajax, also several low-voltage lines and distributing systems in other localities, have been purchased from War Assets Corporation. Negotiations are proceeding for the purchase of a number of other stations, lines, and distribution systems, built by the Commission for various departments of the Dominion government during the war.



NEW TRANSMISSION LINES

A section of the 42 mile, 110,000-volt transmission line between Chatham and Sarnia

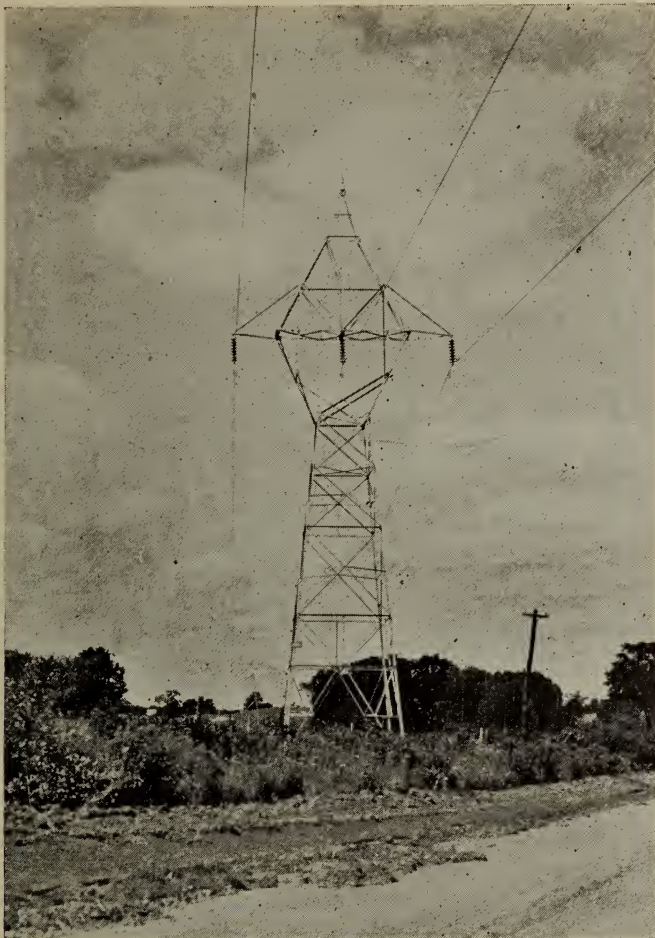
New Transmission Lines

New transmission lines placed in service include 110,000-volt, steel-tower lines from near Ottawa 51.5 miles to Cornwall, from Oshawa 28.75 miles to Scarborough, from Scarborough 50 miles to Barrie, and approximately 83 miles of 12,000-volt to 44,000-volt wood-pole lines, of which 60 miles were built to serve new customers and distributing stations.

Transmission line capacities were increased by restringing 46 miles of circuits with heavier conductor, and by reinsulating 107 miles of circuits for higher voltages. Obsolete circuits totalling 24 miles were removed, in some cases with their supporting structures. Lines purchased from War Assets Corporation or customers totalled 49 miles. Timiskaming district lines totalling 153 miles were rehabilitated.

Lines under construction include 110,000-volt, steel-tower lines from Alexander generating station 60 miles to the Aguasabon development, from Chatham 42 miles to Sarnia, from Barrett Chute generating station 138 miles to Oshawa, and from Cyrville junction 5 miles to Ottawa. The transmission line between Chatham and Sarnia, together with the switching equipment, is practically completed.

Preliminary engineering is progressing for a 230,000-volt line from eastern Ontario to Burlington, together with a 40,000-kva condenser and a fourth 75,000-kva transformer bank at Burlington.



NEW TRANSMISSION LINES

Standard tower on the 110,000-volt Chatham to Sarnia line

Tie Line Control

Based on the extensive studies reported last year, authorization was obtained for an integrated scheme of automatic tie-line load and frequency control of the consolidated Southern Ontario system. This control will be centralized in the Power Supervisor's office in the Administration Building, Toronto.

Rural Extensions and Improvements

The demands for rural distribution lines and services accumulated during the war years when materials and labour were restricted have not been met, and materials are not yet available to satisfy the large carryover of work to be done. A summary at the end of this section shows the miles built and the number of additional consumers served.

Every effort was made to improve service conditions and many changes in the existing plant were made.

Communication Systems

The post-war communications programme is now under way with power line carrier, experimental frequency modulation radio, multiple channel carrier systems, and private automatic exchange switchboards being prepared for use by the Commission. Rehabilitation and revisions of the existing telephone circuits, as well as construction of new cable and open-wire-circuit telephone pole lines, are being continued to provide adequate service for increasing power requirements.

Oil Circuit-Breakers

Progress is being made in the programme of replacing oil circuit-breakers of inadequate rupturing capacity and of using the replaced breakers in other stations.

Staged tests were made on 138,000-volt-class oil circuit-breakers. These tests were similar to those carried out and reported last year, but were on a different design of circuit-breaker.

Metering Equipments

Improvements to existing metering equipments and the installation of new metering equipments are constantly in progress to meet changing conditions. Work in this connection is at present particularly active in the Northern Ontario Properties, where between 50 and 60 metering equipments are in course of change or installation. This activity is due in part to the taking over of the customers of the Northern Ontario Power Company, and in part to new mining customers, and to former mining customers resuming operation.

Engineering Assistance

Engineering assistance was given to a number of municipalities and large power customers, also in connection with the approval under the statute, of electrical installations over 600 volts.

Equipment Deliveries

The material situation is still acute, resulting in slow and retarded equipment deliveries. To overcome this condition orders are being placed as far in advance of actual construction as can be planned.

Miscellaneous

New generating developments and transmission lines, increases in installed capacity, and growth of rural operating areas have created the need in various locations for miscellaneous construction such as housing accommodation for operators and patrolmen, and office, garage, and stores accommodation for rural operating areas. Much consideration has been given to requirements, but, due to material and labour shortages, only a very limited amount of such construction was undertaken.

* * *

Under system headings, further particulars are given of the more important work carried out and authorized during the year.

SOUTHERN ONTARIO SYSTEM

New Generating Capacity

Authorization was given for the construction of a new generating station at Des Joachims, approximately 145 miles west of Ottawa on the Ottawa river, to have an initial installed capacity of 300,000 kva with provision for future extension. The construction of a 20-mile 110,000-volt transmission line extension from Chalk River to the development will shortly be commenced to supply power for construction purposes.

Authorization was given for the installation of a third 24,000-kva generating unit at Stewartville generating station. The authorization of the first two units was reported last year. This generating station will supply power to the Eastern Ontario division over a 110,000-volt transmission line through Barrett Chute to Oshawa transformer station. Facilities are also being provided for the interchange of power with the Madawaska district through a 5,000-kva transformer. Major equipment now being manufactured includes three 24,000-kva, 85 per cent power factor, 163.6 rpm, 13,200-volt generators; three 27,000-kva, 13200/110,000 volt, 3-phase transformers, together with their associated 13,200-volt metal-clad switchgear; and one 5,000-kva, 44,000/13,200-volt, 3-phase transformer (for initial operation at 33,000-volts at reduced capacity), together with its associated switching equipment. Switching equipment is also on order to provide for the extension of the existing 110,000-volt switchyard at Barrett Chute generating station to control the new lines to Stewartville and Oshawa.

Work in connection with the installation of the second 64,000-kva generating unit at DeCew Falls generating station is progressing. The second unit requires the addition at this station of high-voltage switching for two units and two lines. This equipment was purchased during the year.

New Frequency-Changer Station

Progress was made in connection with the new Scarborough frequency-changer and transformer station and the associated transmission lines, transformation and switching to provide for the exchange of power and energy between the Niagara, Georgian Bay, and Eastern Ontario divisions.

As described in last year's report, the planned tie-in point with the Georgian Bay division was adjoining the existing Fergusonvale auto-transformer station. Due to difficulties in obtaining delivery of sufficient line construction materials by the required date to meet load demands, the location of the Georgian Bay division tie-in station was changed from Fergusonvale to Barrie. This change made it necessary to transfer the two 1,500 kva, 44,000/22,000-volt auto-transformers from Fergusonvale to Barrie. The new 110,000/44,000-volt transformer station at Barrie, the additional 110,000-volt switching at Oshawa, and the new 110,000-volt Oshawa-Scarborough and Scarborough-Barrie transmission lines were placed in service on July 2, 1946.

The designing of Scarborough frequency changer and transformer station is about 75 per cent complete, grading of the site was completed, and founda-

tion excavation commenced. The 44,000-volt voltage-regulating equipment at Oshawa and Barrie will be installed early in 1947. The additional switching at Toronto-Leaside transformer station, the new Scarborough-Leaside tie line, and the first frequency-changer unit at Scarborough frequency-changer station are scheduled to be in service by the summer of 1947. Consideration is being given to the installation of a second frequency-changer unit at Scarborough.

Interchange of power will be facilitated at the end of 1947 by the completion of a 110,000-volt line between Barrett Chute development and Oshawa. This line will be extended to Stewartville when that development is ready to furnish power.

Studies are in progress for a 110,000-volt transmission line from Barrie to Owen Sound and ultimately to Hanover, together with a 110,000/44,000-volt step-down station at Owen Sound.

New Terminal Station and Service Centre

The site of the new terminal station and service centre in Etobicoke township, referred to in last year's report, has been divided into two properties known as Kipling transformer station and Islington service centre.

The initial installation of 110,000-volt switching equipment at Kipling transformer station is progressing and should be ready for service early in 1947. Two 25,000-kva, 110,000/26,400-volt transformers, together with the necessary switching and voltage-regulating equipment, have also been ordered and are expected to be in service by the fall of 1948. This will reinforce the power supply to Islington and the surrounding area.

In order to carry the load in this area in the meantime, the capacity at York transformer station is being increased from 30,000 kva to 45,000 kva by using reserve transformers which are available. A 13,000-kva regulating transformer is being installed, to improve voltage to the Georgetown area.

At Islington service centre the rough grading has been completed, railway sidings have been installed, surface and under-drainage is underway, roads and fencing are being constructed, and temporary buildings are being erected for equipment storage.

Other Changes

A new 15,000-kva 110,000/11,000-volt transformer station is being constructed at Cornwall to supply the Canadian Industries Ltd. plant. This new station, and the extensive alterations to the Cornwall transformer and switching stations mentioned in last year's report, are scheduled for completion early in 1947. The 51-mile, 110,000-volt Ottawa-Cornwall transmission line was placed in service on April 15, 1946, but the construction of Merivale switching station, scheduled in the 1945 report for completion in 1946, has been delayed due to priority given to more urgent projects.

Work is progressing on the new 15,000-kva, 110,000/11,000-volt Ottawa-Riverdale transformer station, to provide additional power for the city of Ottawa.



SCARBOROUGH FREQUENCY-CHANGER STATION

An important link in the integration of the Niagara, Georgian Bay and Eastern Ontario divisions of the Southern Ontario system

Equipment was purchased for a new 8,000-kva, 110,000/26,400-volt transformer station at Wallaceburg. This station will be connected to the 110,000-volt transmission circuit between Kent and St. Clair transformer stations, and will supply power to the Wallaceburg area through the existing distributing station, and a new municipal station. Equipment was also purchased for a new station of similar capacity at Kingsville.

The site and transformers were purchased for a new 3,000-kva, 110,000/11,000-volt distributing station near Cobden, to supply power to the Cobden district.

The site and equipment were purchased for a new 1,500-kva, 110,000/8,000-volt distributing station at Russell, to relieve the load on Chesterville and Ottawa distributing stations.

Engineering and purchase of property is progressing for a second 110,000-volt station at Windsor. Studies are being made in connection with a proposed 110,000/13,200-volt additional step-down station at Hamilton, also one at London.

Equipment was purchased for increased capacity at Toronto-Esplanade and Toronto-Wiltshire transformer stations which it is expected will be ready for service in 1948. Two 25,000-kva, 3-phase, transformers and six 6,000-kva, single-phase transformers have been purchased.

A second 500-kva transformer, and additional 4,000-volt feeders, are being added to the 110,000-volt transformer station at Forfar.

The 3,750-kva transformer bank at St. Marys is being replaced with a 7,500-kva bank, and a second 8,000-kva transformer bank is being installed at St. Catharines transformer station.

To improve service and maintenance conditions, 110,000-volt pole structures at Thorold transformer station were replaced by steel structures, and new motor-operated 110,000-volt disconnecting switches were installed.

Installation of the second 15,000-kva transformer bank at Frontenac transformer station (including one 15,000-kva voltage regulator and the necessary switching equipment) previously scheduled for completion in 1946 has been delayed due to non delivery of material.

To augment the supply of power to the Hawkestone rural operating area, a 600-kva, 22,000/8,000-volt distributing station was installed at Bass Lake, together with 13 miles of 44,000/22,000-volt transmission line from Cold-water distributing station.

In order to improve voltage conditions caused by increases in load, a number of used and immediately available synchronous rotating units are being considered for installation forthwith as synchronous condensers. These include a 3,000-kva unit in Peterborough municipal station, a 1,200-kva unit in Auburn generating station, two 1,700-kva units in Owen Sound distributing station, and a 5,000-kva unit at Barrie transformer station. Several step-type voltage regulators have also been purchased for installation in 1947.

An 8,000-kva voltage-regulating transformer is being installed at London transformer station to improve voltage on the feeder to the Exeter and Dashwood districts; a 10,000-kva voltage regulating transformer at Stratford transformer station to improve voltage on the Goderich feeder, and a 15,000-kva voltage regulating transformer at Preston transformer station to improve voltage on the Galt and Hespeler feeders.

The stations in the Scarborough area now served at 13,200-volts from Toronto-Leaside transformer station are being altered for 26,400-volt service from the new Scarborough frequency-changer and transformer station. The stations affected include the existing distributing stations at Agincourt, General Engineering, Scarborough No. 1 and No. 2, and West Hill, and the existing Scarborough township municipal station. The new Dunbarton

distributing station and the new Scarborough township municipal station will be constructed for 26,400-volt service.

Transformer changes are being made at Fenelon Falls generating station in connection with the raising of the voltage of the Lindsay feeder from 11,000 to 44,000 volts.

Additional 26,400-volt switching is being installed at Willowdale regulator station to accommodate an additional 26,400-volt line from Toronto-Fairbank transformer station. This line will feed Willowdale regulator and distributing stations, and will improve service on north Yonge street.

Switching changes are being made at New Toronto distributing station to accommodate line changes and to improve operation in the New Toronto area.

Switching equipment is being installed at Heely Falls generating station to control a new 44,000-volt line to serve American Nepheline, Ltd.

The improvements outlined in the 1944 report at Niagara transformer station were completed. Additional work is being undertaken covering the replacement of the obsolete 110,000-volt oil circuit-breakers with motor-operated disconnecting switches.

Authorization was given for the modernizing of Brant transformer station, which was originally placed in service in 1914. The work will include the construction of an outdoor 26,400-volt switching structure, with modern oil circuit-breakers and switching equipment, the remodelling of the existing control room and switchboard, and other improvements.

To provide rupturing capacity adequate for the continually increasing interconnected capacity on the system, all of the 110,000-volt oil circuit-breakers on the outgoing lines from Queenston transformer station are being replaced by circuit-breakers of 2,500,000-kva rupturing capacity.

Work is in progress on the installation of remote load and frequency telemetering from Chats Falls, DeCew Falls, Queenston, Ontario Power, and Toronto Power generating stations, also from the Gatineau Power Company's Pagan generating station, to the Power Supervisor's office in Toronto.

The sale of a number of distributing stations was made to municipalities. York Mills, Glencairn, De Havilland, and Bayview distributing stations were purchased by North York Township. Elmira and Fergus distributing stations were purchased by Elmira and Fergus Public Utilities respectively.

There was acquired from War Assets Corporation a 6,000-kva, 44,000/2,400-volt station at Nobel, together with 37 miles of 44,000-volt line from Ragged Rapids generating station; also a 3,000-kva, 44,000/2,400-volt station at Ajax, together with 4.6 miles of 44,000-volt line.

Engineering assistance was furnished to several municipalities, including Belleville, Brantford Township, Chatham, East York, Georgetown, Goderich, Guelph, North York, Owen Sound, Peterborough, St. Marys, Scarborough Township, Stamford, Sudbury, Swansea, Thorold, and Waterloo.

THUNDER BAY SYSTEM

Studies were made to determine the generating, switching, and transmission requirements for the next several years.

Authorization was given for the construction of a 45,000-kva generating station at Terrace bay near the outlet of the Aguasabon river into lake Superior, and approximately 5 miles east of Schreiber. This station will supply the Long Lac Pulp and Paper Company's new mill and townsite, to be named Terrace, on the banks of the lake formed by the main power dam, and will also provide additional power for the Thunder Bay system over a 65-mile 110,000-volt transmission line to Alexander generating station.

The purchase of two 22,500-kva, 90 per cent power factor, 257 rpm, 13,800-volt totally-enclosed water-cooled generators has been completed. Construction of the transmission line from Aguasabon to Alexander is well advanced, and it will shortly be put into temporary service for the supply from Cameron Falls of 44,000-volt power for construction purposes at Aguasabon, also at the Long Lac Pulp and Paper Company's millsite.

At Cameron Falls generating station, the 12,000-volt switching is being rearranged, and additions made, to provide additional protection, service security, and flexibility.

To facilitate delivery of additional power to system load centres at Fort William and Port Arthur, the existing 110,000-volt circuits in the vicinity of Alexander and Cameron Falls are being rearranged, and an additional 110,000-volt transmission line will be constructed. A new 110,000-volt switchyard will be constructed at Alexander generating station to control an infeed from Alexander, the new line from Aguasabon, one line to Long Lac transformer station (fed at present from Cameron Falls), and one line to Port Arthur.

The construction of Port Arthur transformer station No. 2, consisting of one 15,000-kva, 110,000/22,000-volt transformer bank, together with 110,000-volt and 22,000-volt line connections will be completed in 1947.

Studies were made relating to the erection of a 110,000-volt switching station at Fort William.

Engineering assistance was furnished to the Long Lac Pulp & Paper Company in connection with the design of a temporary station to supply power for construction.

Engineering assistance was also supplied to the Fort William Hydro-Electric Commission and the Port Arthur Public Utilities relative to additional station capacities and transmission lines.

NORTHERN ONTARIO PROPERTIES

Abitibi District

In the Timmins-Schumacher area the process of amalgamation of the Abitibi and Timiskaming districts now being carried out will establish

Timmins transformer station as the main power centre. By re-routing circuits and eliminating Schumacher transformer station, power will reach Timmins transformer station at 44,000 volts from Lower Sturgeon generating station, and at 26,400 volts from Sandy Falls generating station, in addition to the present input from Abitibi Canyon generating station at 120,000 volts. After transformation, this power will be supplied to the various mine and urban load centres at 26,400 volts.

The work involves an increase in transformer capacity at Timmins transformer station by the installation of three 9,500-kva transformers from Kirkland Lake transformer station rebuilt for 120,000/26,400-volt operation; the installation of three 2,500-kva 44,000/26,400-volt transformers for receiving power from Lower Sturgeon generating station; and additional 26,400-volt feeders for receiving power from Sandy Falls generating station and supplying power to the existing Timmins distributing station of the Timiskaming district.

Related work in the Timiskaming district includes an outdoor switching station at Hollinger transformer station for the supply of 26,400-volt power to a new Timmins distributing station No. 2; auto-transformer stations at McIntyre mines, Coniaurum mines, and Dome mines; and new distributing stations at Schumacher and South Porcupine.

Work is progressing on these changes, and it is expected that some of the changes will be ready for service by the summer of 1947, and the remainder in 1948.

Equipment for measuring the transfer of power between the Abitibi and Timiskaming districts at Timmins transformer station was placed in service on August 1, 1946.

Transformers will be installed at Wawaitin generating station to permit this station to be connected to the Abitibi Canyon-Copper Cliff 120,000-volt trunk lines.

Among the mining customers added to the system during the year, some were re-commencing operations, and others were new mines requiring, in most cases, extension of the Commission's lines. These latter include Aquarius Porcupine Gold Mines, Porcupine Peninsular Gold Mine, and Gold Hawk Porcupine Mines, involving a six and one-half mile extension of a 26,400-volt feeder from Pamour transformer station. A second feeder was extended about one mile to supply the Porcupine Reef Gold Mines. A 26,400-volt feeder from Ramore transformer station was extended one and a quarter miles to supply the Golden Arrow Mines.

System studies are being made to determine the additional transformation and transmission facilities necessary to meet anticipated load increments in this district.

Engineering studies were made in co-operation with the Falconbridge Nickel Company with respect to additional load requirements.

Timiskaming District

In the Cobalt area, plans are well advanced toward providing additional 60-cycle power resources, the transmission of all generated power at 44,000

volts instead of some at 11,000 volts as at present, and the transmission of surplus 60-cycle power to supplement the resources of the Sudbury-Nipissing districts.

To improve service and operating conditions, arrangements are being made to install synchronizing equipment in the 44,000-volt, 60-cycle lines at Kirkland Lake transformer station.

Sudbury District

Engineering studies are being carried out to determine the additional power resources and station and transmission facilities necessary to meet the anticipated load growth in this area.

To supply a new section of the Sudbury rural operating area, work was begun on the erection of six and one-half miles of 22,000-volt line, and the construction of a 600-kva, 22,000/12,000-volt distributing station at Blezard Valley.

Nipissing District

The 24-mile, 22,000-volt Sturgeon Falls-North Bay tie line was restrung with heavier conductor to permit increased transfer of power.

Manitoulin Rural Power District

Studies were made relative to the valuation and purchase of the Kaga-wong generating station of the Manitoulin Pulp Company, and for increased power supply.

Patricia District

Authorization was given for the installation of a fourth generating unit at Ear Falls generating station, together with associated transformation and switching facilities. The work includes a second 44,000-volt transmission line from Ear Falls to Howey Junction, and a new line from Howey Junction to the Pipestone Bay area. The work also includes replacement of the building superstructure for No. 1 unit. This portion of the building superstructure was erected in 1929, and is of temporary construction. The 6,000-kva, 90 per cent power factor, 150 rpm, 6,600-volt generator is on order.

At Rat Rapids generating station, No. 1 generating unit is being reinstalled for service. This 2,000-kva unit was damaged by fire in 1941, and was rebuilt in 1942. Due to war conditions, its reinstallation was deferred. The unit will be placed in service, with temporary control equipment, in December 1946. The permanent control equipment is expected to be installed in 1947.

Engineering studies are being made to determine the additional generation and transmission facilities necessary to provide for further load increment in this district.

Rainy River District

The erection of a 300-kva, 60-cycle, 6,600/12,000-volt distributing station was authorized for installation at the Ontario and Minnesota Pulp and Paper Company's Fort Frances transformer station, to supply the Rainy River rural operating area.

CHANGES IN TRANSFORMER CAPACITY DURING YEAR ENDED OCTOBER 31, 1946

Station	Date	Transformers installed				Transformers removed	
		No.	kva	Ph.	Total kva	No.	kva
SOUTHERN ONTARIO SYSTEM							
Ajax.....	D.S.	Sept. 1, 1946	2	1,500	3	3,000	
Alcona Beach.....	D.S.	July 12, 1946	3	333	1	1,000	
Allandale.....	D.S.	April 25, 1946	3	1,000	1	3,000	
Ancaster.....	D.S.	Feb. 15, 1946	1	600	3	600	
Barrie.....	T.S.	July 2, 1946	2	1,500 (Auto)	3	3,000	
Barrie.....	T.S.	July 2, 1946	4	5,000	1	20,000	
Bayview.....	D.S.	Nov. 1, 1945					1,500
Beamsville.....	D.S.	Oct. 20, 1946	3	667	1	2,000	3 250
Belle River.....	D.S.	Aug. 22, 1946	3	333	1	1,000	3 150
Belleville No. 2.....	D.S.	May 12, 1946	3	667	1	2,000	1 750
Blenheim No. 2.....	D.S.	April 27, 1946	3	333	1	1,000	
Brewers Mills.....	D.S.	July 28, 1946	3	100	1	300	
Calabogie.....	G.S.	Mar. 31, 1946	2	75	1	150	
Cardinal.....	D.S.	Oct. 27, 1946	3	250	1	750	1 300
Carleton Place.....	D.S.	May 22, 1946	3	100	1	300	
de Havilland.....	D.S.	Nov. 1, 1945					1 1,500
Dumfries.....	D.S.	Sept. 15, 1946	3	150	1	450	2 75
Dundalk.....	D.S.	Sept. 1, 1946	1	600	3	600	3 75
Durham.....	D.S.	May 5, 1946	1	600	3	600	3 150
Elmira.....	D.S.	Nov. 1, 1945					3 500
Elmvale.....	D.S.	July 5, 1946	3	100	1	300	3 75
Essex.....	S.C.S.	Jan. 21, 1946	2	21,000	3	42,000	
Eugenia.....	G.S.	Sept. 1, 1946	1	3,000 (Auto)	3	3,000	
Falkenburg.....	D.S.	June 19, 1946	3	200	1	600	3 100
Fergus.....	D.S.	Nov. 1, 1945					3 500
General Engineering.....	D.S.	Aug. 22, 1946	1	600	3	600	
Glencairn.....	D.S.	Nov. 1, 1945					1 1,500
Grand Bend.....	D.S.	July 7, 1946	3	333	1	1,000	
Green River.....	D.S.	May 1, 1946	1	600	3	600	1 300
Haley.....	D.S.	May 31, 1946	6	100	1	600	
Hamilton Gage.....	T.S.	July 7, 1946	1	25,000	3	25,000	
Hanover.....	F.C.S.	Sept. 11, 1946					1 3,000 (Auto)
Kincardine No. 1.....	D.S.	May 19, 1946					3 75
Kincardine No. 2.....	D.S.	May 19, 1946	3	100	1	300	
La Salle.....	D.S.	Dec. 21, 1945	3	333	1	1,000	
Leamington.....	D.S.	Sept. 8, 1946	3	667	3	2,000	
Lyn.....	D.S.	Feb. 10, 1946	3	667	1	2,000	3 250
Martintown.....	D.S.	April 26, 1946	3	200	1	600	3 100
Maxville.....	D.S.	Oct. 25, 1946	3	200	1	600	3 75
Meaford No. 2.....	D.S.	July 16, 1946	3	200	1	600	3 50
Millbrook No. 1.....	D.S.	Feb. 22, 1946					1 100
Millbrook No. 2.....	D.S.	Feb. 22, 1946	2	100	1	200	
Newburg.....	D.S.	Jan. 31, 1946	1	75	1	75	1 37.5
New Toronto.....	D.S.	April 29, 1946					1 1,500
Nobel.....	D.S.	Sept. 1, 1946	2	3,000	3	6,000	

CHANGES IN TRANSFORMER CAPACITY DURING YEAR ENDED OCTOBER 31, 1946

Station	Date	Transformers Installed				Transformers Removed	
		No.	kva	Ph.	Total kva	No.	kva
SOUTHERN ONTARIO SYSTEM —Continued							
North Ingersoll..... D.S.	June 2, 1946	3	667	1	2,000	3	333
Orangeville No. 1..... D.S.	Sept. 29, 1946	3	667	1	2,000	3	250
Orangeville No. 2..... D.S.	May 8, 1946	3	333	1	1,000		
Pinedale..... D.S.	May 16, 1946	3	250	1	750	3	100
Plattsville..... D.S.	Mar. 22, 1946	1	600	3	600		
Port Dover..... D.S.	June 23, 1946	1	600	3	600	1	300
Port Perry..... D.S.	July 26, 1946	3	200	1	600	3	100
Port Stanley..... D.S.	May 1, 1946	3	667	1	2,000	3	250
Priceville..... D.S.	July 30, 1946	1	300	3	300	1	75
Renfrew..... D.S.	Jan. 6, 1946	3	200	1	600	3	75
Ringwood..... D.S.	April 28, 1946	3	333	1	1,000	3	150
Riverside..... D.S.	Jan. 18, 1946	1	1,500	3	1,500		
Shelburne..... D.S.	Sept. 1, 1946	1	600	3	600	3	100
Sidney..... T.S.	Mar. 12, 1946	1	21,000	3	21,000		
			(Regular'r.)				
Sidney..... T.S.	Mar. 12, 1946	3	5,000	3	15,000		
Smiths Falls No. 2..... D.S.	Oct. 6, 1946	3	100	1	300		
Stoney Creek..... D.S.	Dec. 17, 1945	1	600	3	600		
Toronto-Fairbank..... T.S.	July 27, 1946	1	25,000	3	25,000		
Trenton..... D.S.	Oct. 31, 1946	3	100	1	300		
Vittoria..... D.S.	Aug. 20, 1946	1	300	3	300	1	150
Walkerville No. 1..... D.S.	Feb. 14, 1946	3	667	1	2,000	3	500
Wallaceburg..... R.S.	Jan. 13, 1946	3	75	1	225	3	50
Walton..... D.S.	July 4, 1946	3	333	1	1,000	3	150
Warkworth..... D.S.	April 28, 1946	1	300	3	300	1	100
West Lorne..... D.S.	Aug. 11, 1946	3	333	1	1,000	3	150
Wilsonville..... D.S.	Dec. 21, 1945	1	600	3	600		
York Mills..... D.S.	Nov. 1, 1945					6	300
THUNDER BAY SYSTEM							
Nipigon..... D.S.	Mar. 3, 1946	2	250	1	500		
NORTHERN ONTARIO PROPERTIES							
Abitibi District							
Ramore No. 1..... D.S.	Jan. 20, 1946	2	25	1	50		
Ramore No. 2..... D.S.	April 15, 1946	1	75	1	75		
Sudbury District							
Garson..... D.S.	Nov. 24, 1945					3	50
Nipissing District							
Bingham Chute..... G.S.	Nov. 21, 1945	1	250	1	250	1	75
North Bay..... D.S.	Dec. 20, 1945	3	333	1	1,000	3	100
Patricia District							
Red Lake Townsite.. D.S.	Dec. 18, 1945	3	200	1	600		

TOTAL MILEAGE OF TRANSMISSION LINES AND CIRCUITS

System and voltage	Kind of structures	Line route or structure miles			Circuit miles
		Total to Oct. 31, 1945	Additions 1946	Total to Oct. 31 1946	Total to Oct. 31 1946
SOUTHERN ONTARIO SYSTEM					
Niagara division					
220,000-volt.	steel	1,025.12		1,025.12	1,069.97
110,000-volt.	"	812.22		812.22	1,400.95
110,000-volt.	wood	111.98		111.98	113.81
90,000-volt†	steel	65.85		65.85	120.81
60,000-volt†	"	35.23		35.23	35.57
60,000-volt.	wood	0.25		0.25	0.25
26,400-volt.	"	884.01	14.55	898.56	1,071.87
13,200-volt.	"	252.73	4.45	257.18	324.50
13,200-volt.	steel	0.82		0.82	1.64
12,000-volt.	wood	72.39	0.39	72.78	91.65
Dominion Power district 44,000-volt. . .	steel	34.97		34.97	69.94
Dominion Power district 44,000-volt. . .	wood	39.68		39.68	39.68
Dominion Power district 22,000-volt. . .	"	28.02		28.02	28.02
Dominion Power district 10,000-volt. . .	"	14.40		14.40	14.40
Georgian Bay division					
110,000-volt.	steel		49.68	49.68	49.68
110,000-volt.	wood	25.69		25.69	25.69
Bala district 44,000-volt.	"		64.44	64.44	64.44
Eugenia district 44,000-volt.	"	242.08	66.30	308.38	374.84
Muskoka district 44,000-volt and less. .	"	26.31	12.85	39.16	39.16
Severn district 44,000-volt & 22,000-volt	"	110.16	128.91	239.07	285.23
Wasdell district 44,000 & 22,000-volt. . .	"	82.12	8.36	90.48	91.82
Eastern Ontario division					
110,000-volt.	steel	163.23	78.47	241.70	245.01
110,000-volt.	wood	336.56	1.38	337.94	338.33
44,000-volt.	"	24.33		24.33	24.33
33,000-volt.	"	42.80		42.80	48.48
Central district 44,000-volt and less. . .	"	500.41	4.49	504.90	543.13
St. Lawrence district 44,000 volt.	"	144.69	*0.66	144.03	144.41
Rideau district 26,400-volt.	"	62.48		62.48	62.48
Madawaska district 33,000-volt.	"	59.10	0.45	59.55	59.55
THUNDER BAY SYSTEM					
110,000-volt.	steel	82.12	0.42	82.54	164.70
110,000-volt.	wood	178.21		178.21	178.21
44,000-volt.	"	113.81		113.81	113.81
22,000-volt.	"	8.05	0.49	8.54	8.63
12,000-volt.	"	1.45		1.45	1.45
NORTHERN ONTARIO PROPERTIES					
Abitibi district—132,000-volt.	steel	362.74		362.74	725.48
Abitibi district—132,000-volt.	wood	190.19		190.19	190.19
Abitibi district—26,400 & 13,200-volt. . .	"	151.35	26.77	178.12	179.13
Sudbury district—110,000-volt.	"	46.23		46.23	46.23
Sudbury district—22,000-volt.	"	61.57		61.57	61.57
Nipissing district—22,000-volt.	"	63.16		63.16	80.04
Patricia district—44,000-volt.	"	345.10	3.85	348.95	348.95
Patricia district—22,000-volt.	"	32.76	0.75	33.51	33.64
Rainy River district—110,000-volt. . . .	"	119.81		119.81	119.81
Timiskaming district—110,000-volt. . . .	steel	112.82		112.82	225.64
Timiskaming district—110,000-volt. . . .	wood	74.56		74.56	74.56
Timiskaming district—44,000-volt.	"	247.30	*11.32	235.98	235.98
Timiskaming district—12,000 and 11,000 volt.	"	100.49	3.43	103.92	172.49
Totals.		7,489.35	†458.45	7,947.80	9,740.15

*Removals. †Net increase. ‡Former T. & N.P. Co. circuits are now used at various voltages ranging from 4,000 volts to 110,000 volts.

NOTE: Circuit miles of 220,000-volt line in the Province of Quebec connected to H-E.P.C. lines=103.45. Total 220,000-volt system interconnected circuit miles=1,173.42.

**TRANSMISSION LINE CHANGES AND ADDITIONS MADE
DURING THE YEAR ENDED OCTOBER 31, 1946**

SOUTHERN ONTARIO SYSTEM

HIGH VOLTAGE LINES

The 60,000-volt, single-circuit, wood-pole line from Garner Road junction 1.44 miles to Welland Chemical Corporation was converted from pin-type insulation to suspension-type insulation for 1.10 miles for that customer.

A 110,000-volt, single-circuit, steel-tower line was built from Scarborough frequency-changer station 49.68 miles to Barrie transformer station.

A 110,000-volt, single-circuit, steel-tower line was built from Scarborough frequency-changer station 28.75 miles to Oshawa transformer station.

A 110,000-volt, single-circuit, steel-tower line was built from Merivale Road junction 51.49 miles to Cornwall switching station.

LOW VOLTAGE LINES

Niagara Division

NIAGARA DISTRICT:—The 46,000-volt four-circuit steel towers were removed from Niagara transformer station 13.94 miles to Southworth junction.

DUNDAS DISTRICT:—A 13,200-volt line was built from Hatt Street junction 0.10 mile to Hamilton Cotton Company.

The 13,200-volt line from Aldershot junction 0.11 mile to National Sewer Pipe Company was removed.

LONDON DISTRICT:—A 26,400-volt line was built from Dashwood distributing station 7.53 miles to Grand Bend distributing station.

STRATFORD DISTRICT:—A 13,200-volt line was built from Baden distributing station 0.18 mile to Dominion Linseed Oil Company.

BRANT DISTRICT:—A 26,400-volt line was built from Drumbo junction 4.82 miles to Plattsville distributing station.

Two 26,400-volt tap lines totalling 0.10 mile in length were built to two Brantford Township municipal stations.

The 26,400-volt single-phase line from Silver Street junction 0.30 mile to Dumfries distributing station was converted to three phase.

KENT DISTRICT:—A 26,400-volt line was built from Chatham Street junction 1.17 miles to Blenheim distributing station No. 2.

A section of the 26,400-volt line from Ridgetown junction to Thamesville distributing station, 0.67 mile in length, was relocated and total mileage reduced 0.06 mile.

Two sections of the 26,400-volt line from Thamesville distributing station to Bothwell distributing station, 1.20 miles in length, were relocated and total mileage reduced 0.13 mile.

YORK DISTRICT:—A 26,400-volt line was built from New Toronto distributing station 0.09 mile to Donnell and Mudge Limited.

A 26,400-volt line was built from Horner Avenue junction 0.80 mile to Flintkote of Canada Limited.

A 26,400-volt line was built from Struthers street 0.12 mile to Campbell's Soup Company Limited.

HAMILTON DISTRICT:—A 13,200-volt line was built from Smithville distributing station 0.43 mile to Ralston Purina Limited.

LEASIDE DISTRICT:—A 13,200-volt line was built from West Hill distributing station 4.0 miles to Dunbarton distributing station.

The 13,200-volt line from Cedervale Avenue junction to East York distributing station Number 6 was relocated for 0.25 mile.

PORT COLBORNE DISTRICT:—The 13,200-volt line from Dominion Government Elevator junction 1.61 miles to Canada Cement Company Limited was relocated and total mileage reduced 0.24 mile.

ALLANBURG DISTRICT:—A 12,000-volt line was built from Hayes Steel junction 0.28 mile to Hayes Steel Products Limited.

FAIRBANK DISTRICT:—The 26,400-volt line from Fairbank transformer station to Kodak junction was relocated for 0.31 mile.

DOMINION POWER DISTRICT:—The 13,200-volt line from Burlington distributing station to National Fireproofing junction was relocated for 0.23 mile.

Georgian Bay Division

BALA DISTRICT:—The 44,000-volt line from Ragged Rapids generating station 37.25 miles to Nobel distributing station was purchased from War Assets Corporation.

EUGENIA DISTRICT:—A 44,000-volt line was built from Eugenia generating station 7.02 miles to Sydenham junction.

The 22,000-volt circuit was removed from Flesherton junction 0.80 mile to Sydenham junction.

A section of the 22,000-volt line from Sydenham junction to Dundalk distributing station, 0.91 mile in length, was removed and replaced by 1.17 miles of 44,000-volt line in a new location.

A section of the 22,000-volt line from Dundalk distributing station to Crombie junction, 0.95 mile in length, was removed and replaced by 0.69 mile of 44,000-volt line in a new location.

A section of the 22,000-volt circuit from Eugenia generating station to Priceville distributing station, 0.68 mile in length, was removed and replaced by 0.92 mile of 44,000-volt line.

A section of the 22,000-volt circuit from Hanover junction to Hanover switching station, 0.25 mile in length, was removed and replaced by 0.25 mile of 44,000-volt line.

A section of the 22,000-volt line from Mount Forest junction to Mount Forest distributing station, 0.39 mile in length, was replaced by 0.34 mile of 44,000-volt line.

The 44,000-volt line from Teeswater distributing station to Wingham distributing station was relocated for 3.18 miles.

Fourteen line sections, totalling 93.67 circuit-miles, were reinsulated and placed in service at 44,000 volts.

SEVERN DISTRICT:—The 22,000-volt line from Barrie junction 0.62 mile to Allandale junction was replaced with a 44,000-volt line.

A section of the 44,000-volt, double-circuit line from Camp Borden junction to Barrie junction, 0.31 mile in length, was removed, and replaced by a 44,000-volt, double circuit line 1.44 miles to Barrie transformer station.

A 44,000-volt, single circuit line was built from Barrie transformer station 0.65 mile to Allandale junction.

A 44,000-volt, single circuit line was built from Allandale junction 0.14 mile to Allandale distributing station.

A 44,000-volt, double circuit line was built from Barrie transformer station 1.47 miles to Painswick distributing station, one circuit of which was placed in service temporarily at 22,000 volts.

The 22,000-volt circuit from Fergusonvale auto-transformer station 7.28 miles to Midhurst distributing station was reinsulated for 44,000 volts.

The remaining portion of the 22,000-volt circuit from Midhurst distributing station 1.67 miles towards Camp Borden junction was reinsulated for 44,000 volts.

The 22,000-volt circuit from Fergusonvale auto-transformer station 4.57 miles to Elmvale junction was removed and the 44,000-volt circuit was converted to pole-top-pin construction.

The 22,000-volt line from Elmvale junction 0.42 mile to Elmvale distributing station was removed.

The single-phase, 22,000-volt line from Victoria Harbour junction 1.52 miles to Victoria Harbour distributing station was restrung for three-phase operation with stronger conductor.

The 22,000-volt line from Waubaushene switching station to Coldwater junction was relocated for 0.86 mile.

A 44,000-volt line was built from Thornton junction 7.56 miles to Alcona Beach distributing station and placed in service at 22,000-volts.

Eastern Ontario Division

CENTRAL DISTRICT:—The 44,000-volt line from Whitby municipal station 4.60 miles to Ajax distributing station was purchased from War Assets Corporation.

ST. LAWRENCE DISTRICT:—The 44,000-volt line from Winchester junction 4.61 miles to Williamsburg distributing station was restrung with heavier conductor together with removal of ground cable and conversion to pole-top-pin construction for 4.18 miles.

The 44,000-volt line from Williamsburg distributing station to Winchester distributing station was converted to pole-top-pin construction for 8.50 miles, was restrung with heavier conductor for 8.60 miles, and ground cable was removed from 9.01 miles. A portion of the line was replaced by 0.57 mile of new line, reducing the total mileage by 0.24 mile.

MADAWASKA DISTRICT:—A 33,000-volt line was built from McNab junction 0.25 mile to Stewartville distributing station.

THUNDER BAY SYSTEM

The 110,000-volt steel-tower line from Port Arthur transformer station 0.42 mile to the Thunder Bay Paper Company was purchased from the Public Utilities Commission of the City of Port Arthur.

The 22,000-volt wood-pole line from the Public Utilities Commission of the City of Port Arthur 0.40 mile to the Provincial Paper Company was purchased from the Public Utilities Commission of the City of Port Arthur.

NORTHERN ONTARIO PROPERTIES

ABITIBI DISTRICT:—A 13,200-volt line was built from Murdock Creek junction 1.87 mile to Macassa junction.

A 26,400-volt line was built from Ramore distributing station 0.68 mile to Golden Arrow Mines Limited.

The 26,400-volt circuit from Timmins transformer station 3.31 miles to Paymaster Consolidated Gold Mines Limited was restrung with heavier conductor.

The 26,400-volt circuit from Timmins transformer station 3.25 miles to Ray Hill junction was restrung with heavier conductor.

A 26,400-volt line was built from Armistice junction 0.19 mile to Armistice Gold Mines Limited.

A 26,400-volt tap connection 0.11 mile to Barber-Larder Gold Mines Limited was removed.

A 26,400-volt tap connection was built 0.05 mile to Amalgamated Larder Gold Mines Limited.

A 26,400-volt line was built from Hoyle junction 6.57 miles to Nighthawk junction.

A 26,400-volt line was built from Nighthawk junction 5.40 miles to Aquarius Porcupine Gold Mines Limited.

A 26,400-volt line was built from Nighthawk junction 3.15 miles to Peninsular junction.

A 26,400-volt line was built from Peninsular junction 1.0 mile to Porcupine Peninsular Gold Mines Limited.

A 26,400-volt line was built from Peninsular junction 0.85 mile to Goldhawk Porcupine Mines Limited.

A 26,400-volt line was built from Bonetal Gold Mines Limited 1.08 miles to Porcupine Reef Mines Limited.

PATRICIA DISTRICT:—A 22,000-volt line was built from Pickle Crow Gold Mines Limited (Albany Winoga property) 1.30 miles to Crowshore Patricia Gold Mines Limited.

The 22,000-volt line from Pickle Crow Gold Mines Limited (Albany Wingoga property) 0.55 mile to Albany River Mines Limited was removed.

A 44,000-volt line was built from Rahill Bay junction 2.74 miles to Campbell Red Lake Mines Limited.

A 44,000-volt line was built from Campbell Red Lake Mines Limited 0.92 mile to Dickenson Red Lake Mines Limited.

A 44,000-volt line was built from Howey Bay junction 0.19 mile to Red Lake Townsite distributing station.

SUDBURY DISTRICT:—The 22,000-volt line from Stinson generating station 6.20 miles to Falconbridge Nickel Mines was purchased from that customer.

NIPISSING DISTRICT:—The 22,000-volt line from Sturgeon Falls junction 24.13 miles to North Bay municipal station was restrung with heavier conductor.

TIMISKAMING DISTRICT:—The 12,000-volt line from Kirkland Lake transformer station 1.10 miles to Lake Shore junction was removed.

The 12,000-volt line from Macassa junction 0.34 mile to Macassa Gold Mines Limited was restrung with heavier conductor.

The 44,000-volt line No. 1 from Cobalt transformer station 62.90 miles to Kirkland Lake transformer station was rehabilitated.

The 44,000-volt line No. 2 from Cobalt transformer station 65.80 miles to Kirkland Lake transformer station was rehabilitated.

A 12,000-volt line was built from Hound Chute generating station 6.05 miles to Silanco Mining and Refining Company Limited.

The 12,000-volt double-circuit line from Sandy Falls generating station 3.92 miles to Hollinger switching station was converted to single circuit pole-top-pin construction, reinsulated for 26,400 volts, and ground cable was removed for 3.42 miles.

The 44,000-volt line from Lower Sturgeon generating station 27.81 miles to Schumacher transformer station was rehabilitated and reinsulated for 24.0 miles.

COMMUNICATIONS—ALL SYSTEMS

SOUTHERN ONTARIO SYSTEM

In the Southern Ontario System, an open-wire single telephone circuit was constructed on the new 26,000-volt transmission line between Listowel distributing station and Atwood distributing station for a distance of 5.65 miles. An additional telephone circuit was constructed on existing poles for a distance of 3.67 miles between DeCew Falls generating station and Louth junction. Six telephone circuits were erected on a new telephone pole line for a distance of 8.16 miles between the Welland Ship canal and Pelham junction to replace three deteriorated telephone pole lines.

The deteriorated telephone line including conductor, defective crossarms, insulators and fittings between Eugenia generating station, Flesherton junction, Dundalk junction, Crombie junction and Shelbourne distributing station, a total distance of 31.26 miles, and between Fraxa junction and Grand Valley distributing station, a distance of 6.3 miles, was replaced with a new copper circuit.

A modern telephone building was constructed at Chats Falls transformer station to house the present and future physical and carrier telephone, telemetering and control communication equipment. (See illustration in introduction to Report.) Two tone transmitting and receiving channels were superimposed on the existing carrier channel between Chats Falls and Leaside for telemetering of Chats Falls total generated megawatts and Gatineau total 60-cycle megawatts to the power supervisor's office at Toronto. A telephone carrier channel was superimposed on the present physical telephone circuit between Fairbanks transformer station and Waubauskene auto transformer station.

A temporary point-to-point channel was leased between Toronto and Chats Falls to relieve the telephone traffic congestion in the Eastern Ontario division. In addition, a 90-mile telephone circuit with provision for an added carrier channel was leased between Arnprior and Moor Lake in the vicinity of the Des Joachims development.

THUNDER BAY SYSTEM

To provide communication facilities for the construction of the Aguasabon development in the Thunder Bay system, telephone circuit facilities are being provided for a distance of 73 miles between Cameron Falls and Terrace bay. Of this total distance, approximately 55 miles have been provided through the leasing of a telephone circuit between Ozone and Terrace bay.

NORTHERN ONTARIO PROPERTIES

In northern Ontario the existing telephone circuits which were acquired through the purchase of the Northern Ontario Power Company Limited were rehabilitated and re-routed to provide for amalgamation with the existing Hydro telephone circuits in the Timmins, Schumacher, Indian Chutes and Kirkland Lake areas.

DISTRIBUTION LINES AND SYSTEMS IN RURAL OPERATING AREAS

The following summary shows the mileage of distribution lines constructed by the Commission in rural operating areas and the number of consumers served.

The summary indicates a total net increase in construction during the year of 1,189 miles of new primary line completed and giving service to 16,802 additional consumers.

SUMMARY OF CONSTRUCTION IN RURAL OPERATING AREAS

System and division or district	At October 31, 1945		At October 31, 1946					
	Miles of primary line con- structed	Number of con- sumers re- ceiving service	Miles of primary line			Number of consumers		
			Con- structed	Under con- struc- tion or author- ized	Total	Re- ceiv- ing ser- vice	Au- thor- ized	Total
SOUTHERN ONTARIO SYSTEM								
Niagara division.	12,419	95,679	12,836	334	13,170	104,003	1,568	105,571
Georgian Bay division.	3,411	22,698	3,683	176	3,859	26,279	601	26,880
Eastern Ontario division.	5,082	32,532	5,496	303	5,799	36,888	1,269	38,157
THUNDER BAY SYSTEM	301	1,592	303	9	312	1,677	47	1,724
NORTHERN ONTARIO PROPERTIES								
Abitibi district.	66	297	75	14	89	378	32	410
Manitoulin district. . .	165	1,099	167	0	167	1,194	2	1,196
Sudbury district.	34	1,645	66	31	97	1,768	360	2,128
Nipissing district. . . .	91	1,018	95	13	108	1,175	112	1,287
Rainy River district. . .			37	25	62	0	252	252
Totals.	21,569	156,560	22,758	905	23,663	173,362	4,243	177,605

SECTION VIII

RESEARCH, TESTING AND INSPECTION

THROUGHOUT 1946, the Laboratories, freed from war research activities, were able to concentrate upon the Commission's research problems relating to the operation of the power systems, both upon those for which early solution is possible and those which are long range problems. Studies set aside during the war were renewed and many new ones were started.

Electrical insulation, methods of grounding, the preservative treatment of wooden poles, the protection of building structures against lightning, the improvement of concrete and construction methods, paints and protective coatings, petroleum products, and illumination are matters of perennial interest and importance.

Factory inspection of materials and fabricated equipment such as generators, transformers, oil circuit breakers, metalclad switchgear, transmission towers and conductors are routine practice and in connection with new power developments a close check is maintained upon the progress of all important items of equipment through the factories and at the power development site.

The work of the Approvals laboratory increased appreciably. In the case of some items more than twice the work done in the previous year was required; this would indicate that increased demands for the items submitted are emphasizing any shortages that may exist in the production of raw material.

As usual members of the laboratory staff assisted in matters pertaining to the Canadian Electrical Code and in preparing specifications for electrical equipment. In this connection, methods of suppressing radio interference received attention.

Among matters of special interest may be mentioned the new automatic electric storage water heater for residential use, an echo-ranging device of the radar type for locating faults on power transmission lines and telephone lines, and a similar device for detecting cracks in massive concrete structures. These are mentioned again in this report.

RESEARCH AND TESTING LABORATORIES

Research

The research work of the Commission is organized under a main research committee of five department heads. The agreed programme is carried out in the Laboratories or in the field by subcommittees each of which studies some specific problems associated with the operation of the various power systems. The research study of the past year is summarized briefly as follows:

Electrical Insulation

An extensive series of non-destructive insulation tests was undertaken upon certain equipment in service in order to appraise different methods of testing for incipient failures. This work included tests on generators, transformers, and oil circuit-breakers over a wide range of voltage rating. In previous years, the bushing stick has been used very widely on the Commission's systems for gradient tests on bushings to locate incipient failures, and thus prevent power interruptions, and the successful results obtained by its use have been mentioned in earlier annual reports.

Various devices, known as klydonographs, were installed on several station structures to record the magnitude of lightning strokes. The outstanding information of value secured was the incidence and intensity of strokes commonly received at these structures and the nature and amount of insulation required in the equipment, i.e., a check on the safety factor existing in the insulation, and providing information of value for future station design.

The burning of wood poles, cross-arms and pins due to leakage currents from power lines is a potential menace to continuity of electrical distribution, especially in rural areas. The conditions leading to them have been investigated carefully and remedial measures proposed which give promise of satisfactory protection.

Grounding

During the past few years, electrocutions of cattle have become a serious problem. Investigation revealed that these electrocutions frequently were due to insulation failures in wiring or apparatus, and also to unsatisfactory grounding conditions.

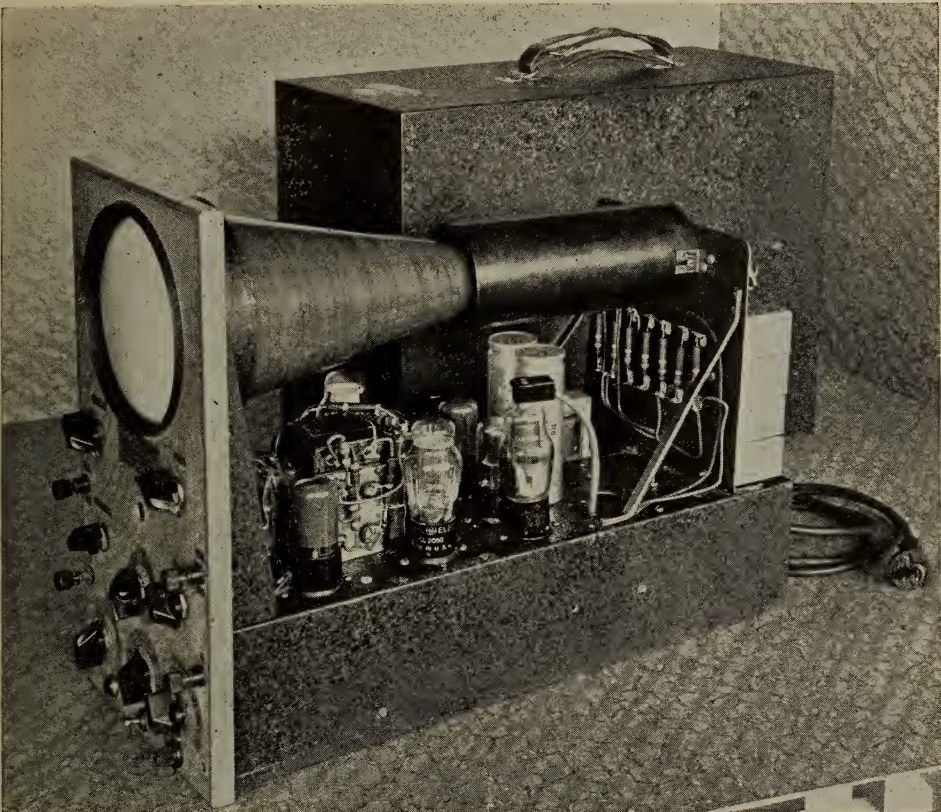
Studies regarding grounding have led to improvements in ground resistances, in methods of making grounds, and in rectification of hazardous conditions where unknown defects were found.

Joints in Electrical Conductors

Abnormal heating of improperly-made joints in aluminum conductors may cause service interruptions. The trouble in unsatisfactory jointing is due primarily to insufficient cleaning and the failure to exclude air and moisture between conductors and the enclosing envelopes. Proper cleaning and improved fabricating methods for joints in aluminum and steel-reinforced aluminum conductors are given in a specification prepared. The new methods have already demonstrated their value.

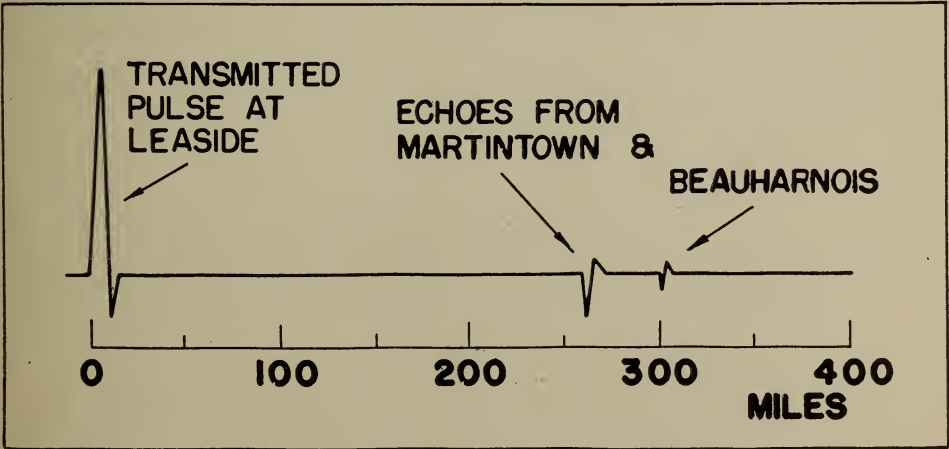
Vibration of Line Conductors

A subcommittee which, for some years, has been studying methods of suppressing vibration of line conductors, co-operated with other utilities in



LOCATING FAULTS ON TRANSMISSION LINES

Echo-ranging electronic device built at the Laboratories, using radar techniques at audio frequencies for detecting faults on power transmission or telephone lines, identifying the type of fault and determining its distance along the line



LOCATING FAULTS ON TRANSMISSION LINES

Typical record obtained on echo-ranging electronic instrument

the United States and Canada, and has prepared a programme of co-operative research in which each will participate to get results with minimum duplication and maximum efficiency. The National Research Council at Ottawa expressed a desire to assist in these studies and offered the use of its wind tunnels in which various conditions may be duplicated and studied.

The bibliography on vibration of conductors was revised and a new printed edition was issued.

Treatment of Wooden Transmission Structures

The use of pentachlorophenol, introduced in 1935 as a wood preservative, was followed closely. A large number of poles were treated and, from their appearance and from laboratory tests, these poles were very satisfactory.

Domestic Hot Water Tanks and Heaters

The new method of applying flat-rate heaters to domestic hot water tanks was developed further. This involves an improved type of strap-on heater, with two such heaters per tank controlled by thermostats to give preference in heating the water in the upper part of the tank to 165°F and to supply a larger amount of hot water on a flat-rate basis than with the method now in common use, i.e., with only one flat-rate heater mounted in a lower position on the tank. The new method does not employ a booster heater and consequently eliminates metered charges in the heating of water for domestic use.

Some modifications have been made in the fabrication of domestic hot water tanks to insure better galvanizing, and a specification has been prepared for the manufacture of the modified tank in 30 and 40 Imperial gallon sizes.

A specification was prepared for the manufacture of a packaged Automatic Electric Storage Water Heater, completely assembled and ready for installation, requiring only the coupling of the hot and cold water connections and two service wires for 115 volt supply at either 25 or 60 cycles. This packaged unit will consist of one tank fitted with two strap-on heaters of equal rating, with two thermostats to control and limit the heating of water, and having the tank, heaters, and thermostats enclosed beneath a layer of rock wool for heat insulation.

Electronic Applications

The associated studies of direct current transmission of power and electronic frequency conversion were continued, these subjects being extended to include alternating current transmission above 300 kv. Information on all these topics was gathered for the purpose of preparing bibliographies and for further investigational study.

Radar techniques were applied for the location of faults on power transmission lines and open-wire telephone circuits using an echo-ranging electronic device built at the Laboratories. Tests on the 230-kv power line from Beauharnois to Leaside transformer station detected positively both line-to-line and line-to-ground specially applied faults and determined their



DETECTION OF FAULTS IN CONCRETE STRUCTURES

A novel application of sound waves to detect cracks in the interior of concrete structures

locations very closely. The type of fault, whether open-circuit or short-circuit, could readily be identified by this equipment. This method of locating faults reduces appreciably the amount of patrolling necessary in the event of trouble. Intermittent faults, which are often difficult to locate, may be found readily by this method.

A special amplifier for use on current transformers with an instrument to indicate currents that are too low in value to be read on usual switchboard ammeters was designed and will be used for checking the balance of currents in different phases at low loads and for comparing small currents in different circuits. The need for a device of this type has been felt in the operation of transmission systems.

Radio Interference

A shielded cage in which radio interference tests may be conducted has been provided for use at the Laboratories.

Tests were made to determine the value, in attenuating radio frequency voltages, of powdered iron magnetic paths surrounding the conductors of a transmission line. This was the beginning of an investigation of a method of suppressing radio interference by limiting the travel of the cause along transmission conductors and thus reducing its range of influence.

Masonry Materials

A large amount of development work was done to enable internal cracks in concrete structures to be detected and investigated by means of supersonic waves.

The instrumentation of Stewartville dam, i.e., the installation in the concrete of devices for measuring temperatures, stresses and strains, was approved and plans for this work were prepared.

A series of comparative tests was made on six Canadian cements to determine their relative physical properties and hydration characteristics. Studies were conducted on air-entraining agents to obtain information as to their use, and advantage, if any, in lean mixtures to reduce the quantity of cement necessary and hence to lower the temperature rise in mass concrete. In tests during this year, however, these were not proved to be of any benefit.

Active study of many problems associated with the durability and repair of concrete was continued and two papers were presented at the last annual convention of the American Concrete Institute in February—one on “Temperature Changes in Concrete as affected by Solar Radiation,” and the other an introductory paper on “The Repair of Concrete.”

Paints and Protective Coatings

Tests on black finishes for equipment were completed and those finishes used during the year were selected on the basis of these test results.

For purposes of study, certain experimental paints, including phenolic base finishes and emulsified pitch, were applied on head gates at one generating station where corrosion was excessive due to the larvae of the caddis fly.

Petroleum Products

Different methods and materials for treating used oils were examined and studied.

A large amount of work was done in studying oil additives for various purposes and a report was prepared giving the nature and particular use of various additives covering about 1,500 different materials.

The stability of insulating oils was studied to provide further information for a revision of the existing specifications.

In co-operation with the American Society for Testing Materials, dielectric tests were made on insulating oils to establish test procedures and with a view to revising the specification covering dielectric strength of such oils.

The effect of high frequencies on insulation quality of oils was studied.

Illumination

Methods and arrangements for illumination of interiors of public buildings and residences were studied with a view to the best distribution of light and a large amount of testing was done with the school classroom model at the Laboratories in order to standardize lighting as much as possible. A new method of blackboard lighting was developed to produce better results and at lower cost than before. The effect of paint of different color on ceilings and walls of classrooms was studied to determine the efficiency of a school lighting system. Here, the ceiling was the most important factor in controlling the intensity of illumination.

Space Heating

Features in the heating of dwellings, schools and public buildings under the climatic conditions of Ontario were studied and some consideration was given to heating by reversed cycle refrigeration. Dielectric and induction heating, by high frequency voltages and currents respectively, were also studied with the intention of building up a store of information on this and the other methods of heating mentioned.

Routine Testing, Materials and Equipment Inspection

The Laboratories have increased their activities in nearly all branches of the work of routine testing of materials and various types of equipment, and in factory inspection and acceptance witness testing of power equipment purchased for the Commission and for municipalities. By this service, the quality in materials and workmanship in the equipment is checked and satisfactory operating characteristics are assured.

Electrical Equipment

Factory inspection of generating equipment under construction but not completed within the year, included—one 64,000-kva generator for DeCew Falls, three 24,000-kva generators for Stewartville development on the Madawaska river, three 22,500-kva generators for Aguasabon, three 25,000-kva, 25/60-cycle frequency-changers for the new Scarborough station and a new 6,000-kva unit for Ear Falls generating station.

Factory inspection, together with final acceptance tests on completed transformers of various ratings, included 141 units having total capacity of 185,383 kva, some of these being 22,000-kva transformers. Forty-one oil circuit breakers, with total capacity of 1,953,933 kva, and 119 air break disconnecting switches, 8,864,790 total kva, were inspected, which represent large increases in both types of equipment.

Distribution transformers of various ratings were inspected and tested to the total of 9,131 units, more than twice the quantity tested last year. Transformer cutouts and fused switches tested amounted to 12,875. Over 225,000 line and bus insulators were inspected.

Routine tests were made in the Laboratories of 5,890 pairs of linemen's rubber gloves and on 1,305 samples of insulating oil. Special tests were made on 1,711 samples of oil.

Instrument and distribution transformers, totalling 1,398, were tested, and also 26 motors of various types and ratings. More than 800 thermostats were tested. Insulators to the number of 3,371 were given flashover tests; 7,638 watt-hour meters were repaired and 461 indicating instruments calibrated.

Mechanical and Structural Equipment

Inspection was completed on two 28,000-horsepower runners of improved design for the turbines at Barrett Chute generating station.

A large amount of inspection work was started on equipment that was not completed during the year, including one 75,000-horsepower hydraulic turbine for DeCew Falls generating station, three 28,000-horsepower turbines for Stewartville development, one 25,000-kva frequency-changer set for Scarborough, two head gates with hoists, and two tainter gates with hoists for DeCew Falls.

At the request of the Department of Reconstruction and Supply, the Laboratories inspected a large quantity of equipment for the United Nations Relief and Rehabilitation Administration. This included twenty complete steam-electric plants for isolated stations, each to deliver 625 kva at 400 volts, 50-cycles, three-phase, with welded boiler, coal conveyor, stoker, surface condenser, multistage steam turbine with oil relay governor, gear

speed reducer, generator, direct-connected exciter, and control and feeder panels, also all necessary accessories, such as forced draft fans, electrically driven pumps, feed water treating and pumping unit, stack, piping, and cooling towers.

Under the same request, thirty-seven generators, belt-driven exciters and control panels were inspected. These were for Diesel driven sets.

Concrete

Four resident inspectors assisted by seven inspectors supervised concrete work on construction projects at Stewartville, DeCew Falls and Aguasabon generating stations and at Kipling transformer station. The inspectors test the aggregates, check the mixtures and quality of concrete and supervise the placing of the concrete in the prepared forms.

Field surveys were made in search of concrete materials at five sites near to proposed projects.

Microscopical Examinations

About 136 microscopical examinations were made of materials used in fabrication and construction to determine the quality of steel castings, welds and machine parts.

Transmission Line Materials

The Laboratories inspected transmission line materials that passed through Strachan Avenue stores. These included cross arms, brackets, insulator pins, clamps, general hardware, wire and cable. Copper wire and cable, galvanized steel cable, and steel-reinforced aluminum cable amounted to 3,656 tons.

Steel and Timber

Structural and reinforcing steel to the total of 5,709 tons were inspected. This is nearly 11 times the amount of steel examined last year. More than 225,100 pine and cedar poles were inspected for extensions to distribution systems.

Chemical Testing

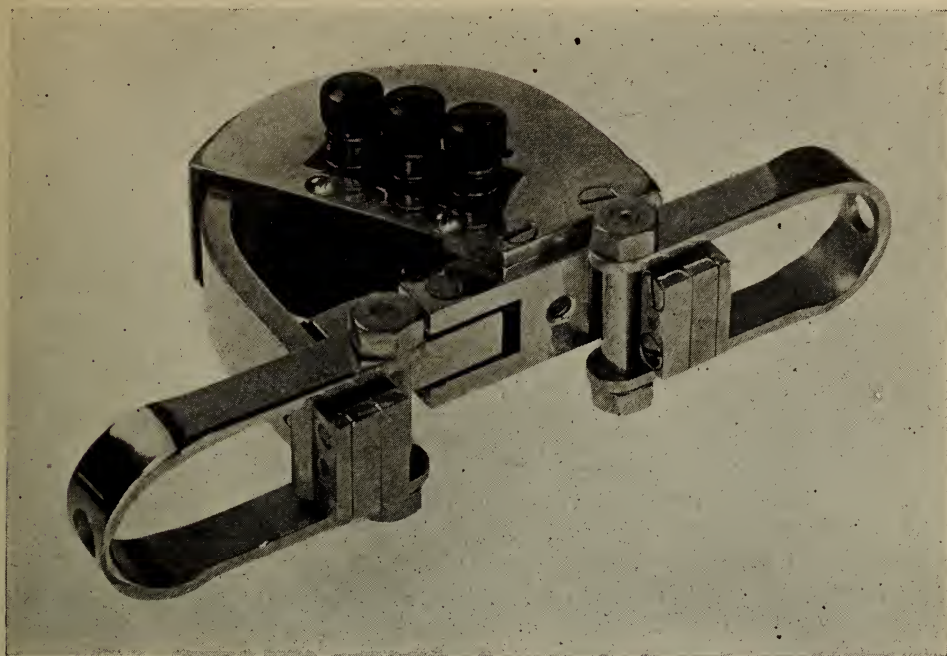
Chemical tests were made of 53 samples of paints used by the Commission on construction projects. This quantity represents fewer tests than were made last year, and this was due to the uncertainty of the supply of raw materials, necessitating so much substitution. Accelerated aging tests were made to give information as to the probable life of paints and their protective values.

Lamps and Lighting Equipment

The number of lamps covered by Laboratory inspection was 1,229,566. Life tests were made on 4,469 lamps.

New Equipment

Some of the more important items of equipment purchased are: a 120,000 pound capacity Tate Emery testing machine, a set of Johansson gauge blocks, a supermicrometer, portable gasoline-electric set to supply 60-cycle current for field tests, equipment for examining microstructure of various materials, a guage for measuring the thickness of protective coatings of paint and



CALIBRATION OF TENSILE TESTING MACHINES

The link dynamometer developed at the Laboratories, is used with an amplifier and indicating instrument to provide a very sensitive means of determining loads applied for calibration. The dynamometer forms two arms of an electrical bridge-type circuit

varnish, and various electrical test instruments, including a double-beam cathode ray oscillograph and two cathode ray oscilloscopes, two electronic voltmeters, precision Schering bridge for use as a standard in measuring capacitance, a megohm bridge for laboratory and field studies, a portable potentiometer, about seventy indicating instruments, seven instrument transformers, and eleven new shunts.

New transformer, rectifying tubes, and a contact panel for the X-ray machine were purchased and installed.

Equipment was purchased for the Chemical Laboratory to be used for analyses by the electrical deposition of metals, a sieving machine for the mechanical analysis of soils and concrete aggregate, a sample splitter for sand, and a strain indicator for use with bonded wire strain gauges.

Equipment for conducting bleeding tests on concrete mixtures was constructed and installed. The 100,000 pound capacity Olsen testing machine was reconditioned and painted. The dark room was removed from the third to the first floor and the processing tank was reconditioned.

A link dynamometer was designed for calibrating low-capacity pendulum-type tensile testing machines.

Specification and Committee Work

The Commission was represented by members of the Laboratories' staff at meetings, conventions, and conferences of the following organizations, and assistance was given in preparation of specifications and in other com-

mittee activities. Canadian Standards Association, American Standards Association, National Research Council, Ontario Research Commission, Canadian Electrical Association, Engineering Institute of Canada, American Institute of Electrical Engineers, American Concrete Institute, American Society for Testing Materials, Chemical Institute of Canada, Canadian Manufacturers Association, Canadian Radio Technical Planning Board, Canadian Institute of Mining and Metallurgy, Ontario Municipal Electric Association, Association of Municipal Electrical Utilities, Illuminating Engineering Society, Dominion Board of Fire Underwriters, International Association of Electrical Inspectors and Department of Reconstruction and Supply.

APPROVALS LABORATORY

Growth of the business of testing and reporting upon electrical equipment submitted for approval was apparent in all branches of the work and in many cases was quite large. Applications for all types of equipment increased 120 per cent, the larger increases being in the electrically-heated and lighted types, with radio and motor-operated appliances not far behind.

The number of approval labels sold increased 31 percent, indicating that shortages in many lines of electrical material may be due to increased demands rather than to a drop in the production of raw material. The footage of wire, cable and conduit, represented by labels sold, increased 36 percent.

This large increase in business necessitated a further increase in the technical and clerical personnel, and additional office, testing and storage space.

Members of the staff attended meetings of the Approvals Administrative Board, the Approvals Council and of the Canadian Electrical Code committees, Parts I, II and IV. The approvals engineer also attended meetings of the Canadian Standards Association fire hazards committee.

Canadian Electrical Code

A large amount of work is done each year in regard to the Canadian Electrical Code on electrical installations which includes attendance at meetings of the central committee and issuing interim revisions and interpretations. Approvals specifications for electrical equipment are prepared in draft and final form and also interim revisions of published specifications. Attendance is required at meetings of the committee. Work on radio interference includes preparation of drafts of parts of specifications to improve methods of suppressing radio interference and also requires attendance at meetings of the committee and of panels and subpanels of the main committee.

ELECTRICAL INSPECTION

The Electrical Inspection department is entrusted with the enforcement of the rules and regulations governing electrical installations in Ontario. These rules establish essential requirements and minimum standards for the installation and maintenance of electric wiring and equipment. In their preparation and revision consideration is given to the prevention of fire and injury to persons.

Electrocutions and Fatal Accidents

Nine persons were accidentally electrocuted through contact with electric wiring or equipment. The individual causes are summarized hereunder:

1 Stationary engineer was replacing crane collector wires in insulators. Circuit was not known to be alive. Potential 550 volts.

2 Electrician was repairing equipment connected to a circuit he had de-energized. The circuit was made alive by some other person. Potential 550 volts.

3 A workman was using an electric drill while repairing a boat. The drill was not grounded and proved to have been defective. Potential 115 volts.

4 A crane operator came into contact with live parts of equipment in the control cab. Potential 230 volts D.C.

5 A man attempted to remove a lamp bulb from a brass socket while standing on damp ground. The socket was defective. Potential 117 volts.

6 A boy came into contact with an elevator control panel in a penthouse. Potential 550 volts.

7 A child touched a bare conductor while at play. This wire had been run as a temporary measure and was within reach. Potential 220 volts.

8 A man, using equipment connected to power supply by means of a portable cable, touched a defective part of the cable. Potential 550 volts.

9 A woman was using a portable electric heater in a bathroom. She apparently touched it while in the bath. Potential 115 volts.

Accidents—Cattle

Two cows were electrocuted through contact with stanchions. In each instance, the stanchions had become charged as the result of a breakdown in the insulation of the wiring system.

Ground Tests

A total of 2,777 tests were made of consumer's artificial ground electrodes in rural areas, an increase of 277 tests over the previous year.

Infractions of Regulations

Twenty-one persons or companies were prosecuted for various infractions of the rules and regulations governing the installation of electric wiring and equipment.

Canadian Electrical Code

During the past year members of the Electrical Inspection department attended numerous meetings in connection with the preparation of the final draft of the Canadian Electrical Code, Part I. This Code is incorporated in The Hydro-Electric Power Commission of Ontario, Rules and Regulations Governing Electrical Installations and Equipment in Ontario.

The revision of the Canadian Electrical Code, Part I, has been completed with the exception of editorial changes, and the revised Code will be published in 1947.

SECTION IX

FINANCIAL STATEMENTS

Relating to

Properties Operated by The Hydro-Electric Power Commission on behalf of Co-operating Municipalities of the Southern Ontario System (Niagara, Georgian Bay and Eastern Ontario Divisions) and the Thunder Bay System,

and to

Northern Ontario Properties Held and Operated by the Commission in Trust for the Province of Ontario, and

The Hamilton Street Railway Company—A Subsidiary of the Southern Ontario System

IN this section of the Report financial statements relating to the activities of The Hydro-Electric Power Commission, segregated into certain distinct divisions, are presented. The first division relates to those activities on behalf of the co-operative municipalities, which are partners in the main Hydro undertaking comprising the Southern Ontario system (Niagara, Georgian Bay and Eastern Ontario divisions), the Thunder Bay system, and Rural Power districts associated with these two systems. The second relates to the administration of the Northern Ontario Properties which are held and operated by the Commission in trust for the Province of Ontario. The third relates to The Hamilton Street Railway Company, a wholly-owned subsidiary of the Southern Ontario system.

Co-operative Systems

In the Foreword to this Report a brief reference is made to the basic principle governing the operations of the Hydro undertaking in supplying electrical service at cost, and to the wholesale and retail aspects of the work. A description is also given of the systems into which the partner municipalities are co-ordinated for securing common action with respect to power supplies, through the medium of The Hydro-Electric Power Commission which, under The Power Commission Act, functions as their Trustee.

Although for the purpose of financial administration the Southern Ontario and Thunder Bay systems are separate units, there is a similarity of procedure with respect to their operation which enables certain financial statements, as for example the various reserves, to be co-ordinated and presented in summary tables.

The first set of tables in Section IX gives collective results for the co-operative activities related to the two systems. These tables include a **balance sheet**; a **statement of operations** as detailed in the "cost of power" tables referred to below; schedules respecting **fixed assets, capital expenditures and grants—rural power districts, account with the Provincial Treasurer of the Province of Ontario, funded debt issued or assumed, power accounts receivable, renewals reserves, contingencies and obsolescence reserves, stabilization of rates reserves and sinking fund reserves.**

The tables which follow these general financial statements relate more particularly to the individual municipality's aspects of the wholesale activities of the Commission and for each system show the **cost of power** to the individual municipal utilities, the **credit or debit** adjustment remaining at the end of the fiscal year, and the **sinking fund** equity that has been acquired by the individual municipality. There is also included for each system a **rural operating** statement.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply and other factors. The entire capital cost of the various power developments and transmission systems is annually allocated to the connected municipalities and other wholesale power consumers, according to the relative use made of the lines and equipment. In general each municipality assumes responsibility for that portion of property employed in providing and transmitting power for its use,* together with such expenses—including the cost of purchased power if any—as are incidental to the provision and delivery of its wholesale power. The annual expenses and the appropriations for reserves are provided out of revenues collected in respect of such power, through the medium of power bills rendered by the Commission. The municipalities are billed at an estimated interim rate each month during the year and credit or debit adjustment is made at the end of the year,† when the Commission's books are closed and the actual cost payable by each municipality for power taken has been determined.

Included in the municipality's remittance to the Commission for the wholesale cost of power—besides such current expenses as those for operation and maintenance of plant, for administration, and for interest on capital—are sums required to build up reserves for sinking fund, for renewals, and for contingencies and obsolescence. The first-mentioned reserve, namely, sinking fund, is being created on a 40-year basis for the purpose of liquidating

*Subject to maximum rate; see footnote on page 150.

†The financial year for the Commission ends on October 31. The financial year for the municipal electric utilities however, ends on December 31, and the municipal accounts are made up to this date, and are so recorded in Section X.

capital liabilities. The other reserves are, respectively, being created to provide funds for the replacing or rebuilding of plant as it wears out; to enable the undertaking to replace existing equipment with improved equipment as it becomes available through advances in science and invention, and to meet unforeseen expenses which from time to time may arise.

The ultimate source of all revenue to meet costs—whether for the larger operations of The Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. Out of the total revenue collected by each municipal utility from its consumers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission as outlined above is remitted to the Commission; the balance of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its consumers.

Tabular Data

The following comments relate to the tabular data presented:

Balance Sheet.—The first tabular statement given in Section IX is a balance sheet showing the assets, and the liabilities and reserves of the co-operative systems.

Statement of Operations.—This statement is a summary of operating expenses and fixed charges as shown in the “cost of power” tables and rural operating statements relating to the individual systems as referred to more particularly below.

Fixed Assets.—Details are given concerning the various fixed assets of each system and of the miscellaneous properties, showing in separate classifications the values of plant under construction and in service, depreciable and non-depreciable and supplemented by a statement showing expenditures, adjustments and retirements occurring during the year.

Capital Expenditures and Grants—Rural Power Districts.—This schedule gives summary information respecting the total capital expenditures on rural power districts and grants-in-aid of construction paid or payable by the Province with respect to such rural districts.

Account with the Provincial Treasurer.—This schedule lists, both for the systems operated on a cost basis, and for the Northern Ontario Properties which are held and operated by the Commission in trust for the Province, the advances from the Province of Ontario and the repayments which have been applied to reduce this liability. It should be noted that Provincial advances to finance Northern Ontario Properties are shown in memorandum form only on the balance sheet of the Commission as the direct liability is carried on the Northern Ontario Properties’ balance sheet.

Funded Debt Issued.—This schedule presents a complete list of the outstanding securities issued by the Commission on account of the systems, and the Northern Ontario Properties. It should be

noted that securities issued to finance Northern Ontario Properties are shown only in memorandum form on the balance sheet of the Commission, whilst the direct liability is shown on the balance sheet of the Northern Ontario Properties.

Power Accounts Receivable.—This schedule sets forth the amounts collectable from all classes of power consumers and includes the annual adjustment figures from the “credit or charge” statements for municipalities. The amounts of debit balances three months or more overdue are stated.

**Renewals Reserves,
Contingencies and Obsolescence Reserves, and
Stabilization of Rates Reserves.**

These schedules show the provisions made to, the expenditures from, and the balance to the credit of, these reserves for each of the systems and other properties included in the power undertakings operated on a cost basis.

Sinking Fund Reserves.—This schedule summarizes the appropriations of principal and interest with respect to these reserves for each of the systems and certain other properties.

Following these statements, which are common to all systems, there are given for each of the co-operative systems four tabular statements as follows:

Cost of Power statement, which shows the apportionment to each municipality of the items of cost summarized in Statement of Operations, as well as the apportionment of fixed assets in service listed in the balance sheet and the amount of power taken by each municipality. It should be noted that the cost of power given in this table is the wholesale cost—that is, the cost which the Commission receives for the power delivered from the main transformer stations serving the local utility. In the case of municipal electrical utilities not directly administered by the Commission, the respective costs of power appear in Statement “B” of Section X as “cost of power supplied by H-E.P.C.”

Credit or Charge statement, which shows the adjustments made in order to bring the amounts paid by each municipal electric utility to the actual cost of service.

Sinking Fund statement, which gives the accumulated total of the amounts paid by each municipality as part of the cost of power together with its proportionate share of other sinking funds.

Rural Operating statement, which summarizes for the rural power district of the system the various items of cost, and the revenues received, in connection with the distribution of electrical energy to rural consumers.

Northern Ontario Properties

The statements and schedules respecting these properties which are held and operated by the Commission in trust for the Province of Ontario include the balance sheet, operating account, schedules of fixed assets, renewals reserve, contingencies and obsolescence reserve, and sinking fund reserve. These schedules are similar in form to the corresponding schedules relating to the co-operative systems.

The Hamilton Street Railway Company

This wholly-owned subsidiary of the Southern Ontario System; has been operated by the Commission from January 1, 1930 to September 15, 1946. Ownership by the Commission terminated September 15, 1946, by the sale of all the issued shares of the Company. An operating statement to that date is presented.

Municipal Utilities

All municipal Hydro utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and to provide the necessary reserves to protect generating, transforming and transmission systems, the municipalities are taking similar action with respect to their local Hydro utility systems.

The balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts," relate to the operation of local distribution systems by individual municipalities which have contracted with the Commission for their supply of electrical energy. To this section there is an explanatory introduction to which the reader is specially referred.

Auditing of Accounts

The accounts of The Hydro-Electric Power Commission of Ontario are verified by auditors specially appointed by the Provincial Government. The accounts of the "Hydro" utility of each individual municipality are prepared according to approved and standard practice and The Public Utilities Act requires that they shall be audited by the auditors of the municipal corporation.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO**FINANCIAL ACCOUNTS**

For the year ended October 31, 1946

Relating to Properties operated on a "Cost Basis" for the Co-operating
Municipalities and Rural Power Districts which are supplied with
Electrical Power and Services from the following Properties:

Southern Ontario System

Thunder Bay System

Service and Administrative
Buildings and Equipment

STATEMENTS

Balance Sheet as at October 31, 1946

Statement of Operations and Cost of Power for the year ended
October 31, 1946

Schedules supporting the Balance Sheet as at October 31, 1946:

Fixed Assets—By Systems and Properties

Fixed Assets—Changes during year

Capital Expenditures and Grants—Rural Power Districts

Account with the Provincial Treasurer of the Province of Ontario

Funded Debt Issued or Assumed

Power Accounts Receivable

Renewals Reserves

Contingencies and Obsolescence Reserves

Stabilization of Rates Reserves

Sinking Fund Reserves

Statements for Municipalities Receiving Power under Cost Contracts

THE HYDRO-ELECTRIC POWER SOUTHERN ONTARIO AND

BALANCE SHEET AS AT

ASSETS

FIXED ASSETS:

Southern Ontario system.....	\$325,335,998.53
Thunder Bay system.....	23,446,766.23
Service and administrative buildings and equipment.....	4,426,321.08

\$353,209,085.84

Less: Grants-in-aid of construction:

Province of Ontario—for rural power districts.....	23,802,911.32
--	---------------

\$329,406,174.52

CURRENT ASSETS:

Employees' working funds.....	\$ 97,501.90
Sundry accounts receivable.....	542,380.22
Power accounts receivable.....	3,366,029.46
Rural power district grants receivable.....	746,713.13
Interest accrued.....	656,200.65
Consumers' and contractors' deposits:	
Cash deposits.....	\$ 41,062.43
Securities—at par value.....	1,037,250.00
	<hr/> 1,078,312.43
Prepayments.....	43,412.05

6,530,549.84

INVENTORIES:

Construction and maintenance materials and supplies.....	\$5,918,040.88
Construction and maintenance tools and equipment.....	2,717,702.01
Office equipment.....	143,684.96

8,779,427.85

DEFERRED CHARGES AND SUNDRY ASSETS:

Unamortized discount on debentures.....	\$ 399,637.85
Sundry investments.....	234,125.00
Agreements and mortgages.....	23,168.75
Rural district loans.....	1,448.29
Work in progress—deferred work orders.....	525,622.52

1,184,002.41

RESERVE FUND INVESTMENTS:

Investments in government and government guaranteed bonds, at amortized cost:

Employers' liability insurance fund.....	\$1,018,943.53
Pension fund.....	10,865,294.26
Other reserves.....	69,328,686.54

81,212,924.33

\$427,113,078.95

COMMISSION OF ONTARIO

THUNDER BAY SYSTEMS

OCTOBER 31, 1946

LIABILITIES AND RESERVES

LONG TERM LIABILITIES (at par of exchange):		
Funded debt.....	\$103,623,000.00	
Less—debentures issued to finance Northern Ontario Properties.....	30,833,600.00	
		\$72,789,400.00
Advances from the Province of Ontario.....	\$91,967,327.14	
Less—advances for Northern Ontario Properties.....	5,497,903.65	
		86,469,423.49
Purchase agreements and mortgages.....		53,648.24
		\$159,312,471.73
CURRENT LIABILITIES:		
Bank overdraft—secured.....	\$2,966,373.27	
Accounts and payrolls payable.....	3,644,082.90	
Power accounts—credit balances.....	474,287.78	
Northern Ontario Properties—current account.....	2,640,728.47	
Advances from the Province of Ontario for rural loans.....	1,454.94	
Consumers' and contractors' deposits.....	1,138,391.39	
Debenture interest accrued.....	696,717.57	
Miscellaneous accruals.....	570,713.02	
		12,132,749.34
RURAL POWER DISTRICTS—rates suspense, net.....		3,315,848.60
RESERVES:		
Renewals.....	\$70,796,731.04	
Contingencies and obsolescence.....	54,227,330.63	
Stabilization of rates.....	19,982,863.64	
Fire insurance.....	176,232.36	
		\$145,183,157.67
Employers' liability insurance.....	1,467,306.97	
Pension fund.....	11,373,917.04	
Savings and retirement fund.....	284,515.56	
Miscellaneous.....	807,069.49	
		159,115,966.73
SINKING FUND RESERVE:		
Represented by funded debt and provincial advances retired through sinking funds.....	93,236,042.55	
		\$427,113,078.95
Contingent liability under uncompleted contracts for the construction of fixed assets, approximately \$8,000,000.		

Auditors' Report

We have made an examination of the balance sheet of the Southern Ontario and Thunder Bay Systems of The Hydro-Electric Power Commission of Ontario, as at October 31, 1946 and of the attached statement of operations for the year ended on that date. In connection therewith we reviewed the system of internal control and the accounting procedures of the Commission, and, without making a detailed audit of the transactions, have examined or tested accounting records of the Commission and other supporting evidence by methods and to the extent we deemed appropriate.

We report that in our opinion the foregoing balance sheet and related statement of operations (as more fully reported upon by us to the Lieutenant-Governor in Council) have been drawn up so as to exhibit a true and correct view of the state of the affairs of the Southern Ontario and Thunder Bay Systems of the Commission at October 31, 1946 (subject to the trusts which prevail in respect thereto) and the results of their operations for the year ended on that date, according to the best of our information and the explanations given us and as shown by the books.

Toronto, Canada,
May 14, 1947.

CLARKSON, GORDON & CO.
Chartered Accountants.

**THE HYDRO-ELECTRIC POWER
SOUTHERN ONTARIO AND
STATEMENT OF OPERATIONS**

	Southern Ontario system
	\$ c.
Cost of power:	
Cost of power purchased.....	11,237,627.75
Operating, maintenance and administrative expenses.....	7,564,065.88
Interest (including interest on sinking fund, renewals, and other reserves and after deducting interest earned on investments)	10,916,399.40
Provision for renewals.....	2,219,332.19
Provision for contingencies and obsolescence.....	8,575,543.00
Provision for stabilization of rates.....	.....
Provision for sinking fund.....	2,797,669.01
Total.....	43,310,637.23
Amounts received from or billed against municipalities and other customers:	
Municipalities (at interim rates).....	29,541,675.42
Rural power districts.....	3,258,030.20
Companies.....	13,180,588.23
Mining area.....	.....
Local distribution system.....	125,138.74
Rural lines operated by municipalities.....	92.48
Total.....	46,105,525.07
Balance, credited or charged to municipalities on annual adjustment of the cost of power:	
Credited.....	2,794,887.84
Charged.....	.....
Net credit.....	2,794,887.84

COMMISSION OF ONTARIO

THUNDER BAY SYSTEMS

For the Year Ended October 31, 1946

Thunder Bay system	Distribution in rural power districts	Elimination of inter-departmental billings	Total
\$ c.	\$ c.	\$ c.	\$ c.
.....	3,279,836.48	3,279,836.48	11,237,627.75
648,159.70	2,008,154.00	.....	10,220,379.58
896,073.06	954,616.21	.....	12,767,088.67
171,198.09	456,783.19	.....	2,847,313.47
557,433.79	.....	.....	9,132,976.79
(90,335.81)	.....	.....	(90,335.81)
209,603.78	243,706.29	.....	3,250,979.08
2,392,132.61	6,943,096.17	3,279,836.48	49,366,029.53
809,683.71	.....	.....	30,351,359.13
21,806.28	7,023,246.12	3,279,836.48	7,023,246.12
1,104,872.32	.....	.....	14,285,460.55
515,579.95	.....	.....	515,579.95
.....	.....	.....	125,138.74
.....	.....	.....	92.48
2,451,942.26	7,023,246.12	3,279,836.48	52,300,876.97
59,809.65	84,882.24	.....	2,939,579.73
.....	4,732.29	.....	4,732.29
59,809.65	80,149.95	.....	2,934,847.44

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

FIXED ASSETS—October 31, 1946

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
POWER PLANTS				
Niagara Division:				
Niagara river:				
Queenston-Chippawa.....	565.18	46,668,135.21	28,734,678.82	75,403,379.21
Ontario Power.....	122.73	7,281,151.42	14,436,203.00	21,717,477.15
Toronto Power.....	18.77	3,823,379.60	7,618,491.39	11,441,889.76
Ottawa river:				
Chats Falls.....	201.84	818,263.01	6,372,273.45	7,190,738.30
Des Joachims.....	526,501.57			526,501.57
Power sites.....	50,002.00			50,002.00
Welland canal:				
DeCew Falls.....	2,597,117.69	6,527,420.13	9,688,669.65	18,813,207.47
Long Lake diversion.....		256,962.82	620,829.40	877,792.22
Ogoki diversion.....		2,790,000.00	2,077,232.19	4,867,232.19
Preliminary river surveys.....		30,242.35		30,242.35
Georgian Bay Division:				
Muskoka river: (below lake)				
Bala No. 1 and No. 2.....		29,191.00	43,216.77	72,407.77
Ragged Rapids.....	251.35	70,889.49	1,261,109.55	1,332,250.39
Big Eddy.....		170,434.74	1,123,218.39	1,293,653.13
Land and water rights.....		17,224.03		17,224.03
Seymour river:				
Wasdells.....	4,344.03	13,752.32	178,089.04	196,185.39
Big Chute.....	312.87	122,540.48	562,911.57	685,764.92
Beaver river:				
Eugenia.....	105.68	142,538.73	1,191,754.16	1,334,398.57
Saugeen river:				
Hanover.....		10,000.00		10,000.00
Walkerton.....		100,372.31	117,123.34	217,495.65
Muskoka river: (above lake)				
South Falls.....	1,256.44	17,934.95	436,726.95	455,918.34
Trethewey Falls.....		51,549.45	305,718.47	357,267.92
Hanna Chute.....		33,256.73	207,504.10	240,760.83
Hollow Lake dam.....		17,674.24	29,540.16	47,214.40
Sauble river:				
Lands and rights.....		4,200.00		4,200.00
Credit river:				
Caledon.....		8,000.00	52,069.11	60,069.11
Miscellaneous.....	3.00			3.00
Eastern Ontario Division:				
Fenelon river:				
Fenelon Falls.....	4,810.66	60,000.00	88,789.83	153,600.49
Otonabee river:				
Auburn.....		31,400.00	290,275.05	321,675.05
Lakefield.....		19,620.05	217,248.84	236,868.89
Trent river:				
Heely Falls.....	1,877.60		1,202,042.81	1,203,920.41
Seymour.....			315,877.79	315,877.79
Ranney Falls.....		18,596.20	1,419,855.95	1,438,452.15

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

FIXED ASSETS—October 31, 1946

Property	Under construction	In service		Total
		Non- depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
POWER PLANTS—(Continued)				
Trent river—continued				
Crow river.....		1,000.00		1,000.00
Hagues Reach.....			573,262.30	573,262.30
Meyersburg.....			837,865.91	837,865.91
Sills Island.....		38,679.36	281,426.02	320,105.38
Frankford.....	873.42		252,398.83	253,272.25
Sidney.....			250,996.46	250,996.46
Mississippi river:				
High Falls.....		13,154.84	702,853.83	716,008.67
Galetta.....	178.22	20,000.00	127,888.21	148,066.43
Madawaska river:				
Barrett Chute.....	2,794.71	701,075.34	3,836,446.76	4,540,316.81
Calabogie.....		80,825.74	678,701.70	759,527.44
Stewartsville.....	2,422,153.45			2,422,153.45
Bark Lake dam.....		609,086.12	795,985.55	1,405,071.67
Kaministeg Lake dam.....		20,184.73	1,795.46	21,980.19
Undeveloped sites.....		470,000.00		470,000.00
Miscellaneous.....	60.97		46,071.28	46,132.25
Intangible.....		2,217,761.29		2,217,761.29
	5,613,552.18	73,306,496.68	86,977,142.09	165,897,190.95
TRANSFORMER STATIONS				
Niagara Division.....	2,616,716.15		50,151,351.06	52,768,067.21
Georgian Bay Division.....	43,361.61		2,442,648.33	2,486,009.94
Eastern Ontario Division.....	414,267.47	76,296.26	4,968,041.76	5,458,605.49
	3,074,345.23	76,296.26	57,562,041.15	60,712,682.64
TRANSMISSION LINES				
Niagara Division:				
Lines.....	630,588.57		29,638,055.80	30,268,644.37
Right-of-way.....		8,854,781.97		8,854,781.97
Georgian Bay Division.....	56,238.75	111,815.78	3,598,599.08	3,766,653.61
Eastern Ontario Division.....	271,509.84	666,605.09	7,154,481.20	8,092,596.13
	958,337.16	9,633,202.84	40,391,136.08	50,982,676.08
LOCAL SYSTEMS				
Niagara Division.....			117,217.12	117,217.12
Georgian Bay Division.....			123,206.61	123,206.61
Eastern Ontario Division.....		703.00	32,643.06	33,346.06
		703.00	273,066.79	273,769.79
Sub-total.....	9,646,234.57	83,016,698.78	185,203,386.11	277,866,319.46

**THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO SYSTEM**

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

FIXED ASSETS—October 31, 1946

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
RURAL POWER DISTRICT				
H-E.P.C. investment.....		37,559.97	23,911,002.45	23,948,562.42
Government grants.....			23,520,194.63	23,520,194.63
		37,559.97	47,431,197.08	47,468,757.05
RURAL LINES				
Georgian Bay Division.....			922.02	922.02
	9,646,234.57	83,054,258.75	232,635,505.21	325,335,998.53

	Cost statements	Transfers for cost purposes	Fixed assets as above
	\$ c.	\$ c.	\$ c.
Cost of Power schedules.....	277,703,414.75	162,904.71	277,866,319.46
Rural Operating schedules.....	24,111,467.13	162,904.71	23,948,562.42
Rural Lines schedules.....	922.02		922.02

**THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
THUNDER BAY SYSTEM**

FIXED ASSETS—October 31, 1946

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
POWER PLANTS:				
Nipigon river:				
Cameron Falls.....	1,034.12	857,418.84	9,096,092.32	9,954,545.28
Alexander.....	1,531.94	77,090.06	6,539,457.18	6,618,079.18
Virgin Falls dam.....		55,450.41	426,736.74	482,187.15
Aguasabon River:				
Aguasabon.....	654,255.30			654,255.30
	656,821.36	989,959.31	16,062,286.24	17,709,066.91
TRANSFORMER STATIONS.....	136,455.09	353,715.37	950,346.92	1,440,517.38
TRANSMISSION LINES.....	953,640.18	963,385.00	1,722,571.31	3,639,596.49
LOCAL SYSTEMS.....	1,096.16	91,055.91		92,152.07
Sub-total.....	1,748,012.79	2,398,115.59	18,735,204.47	22,881,332.85
RURAL POWER DISTRICT:				
H-E.P.C. investments.....			282,716.69	282,716.69
Government grants.....			282,716.69	282,716.69
			565,433.38	565,433.38
	1,748,012.79	2,398,115.59	19,300,637.85	23,446,766.23

	Cost statements	Fixed assets as above
Cost of Power schedules.....	22,881,332.85	22,881,332.85
Rural Operating schedules.....	282,716.69	282,716.69

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
ADMINISTRATIVE AND SERVICE BUILDINGS AND EQUIPMENT

FIXED ASSETS—October 31, 1946

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
ADMINISTRATIVE BUILDINGS: Toronto: University avenue.	\$ c. 5,981.68	\$ c. 319,607.94	\$ c. 2,776,981.42	\$ c. 3,102,571.04
SERVICE BUILDINGS AND EQUIPMENT: Toronto: Strachan avenue. 1379 Bloor street west. Islington service centre. Cobourg. Hamilton.			639,168.14 50,000.00 22,245.08 550,000.00	639,168.14 50,000.00 22,245.08 550,000.00
	62,336.82			
	62,336.82	550,000.00	711,413.22	1,323,750.04
	68,318.50	869,607.94	3,488,394.64	4,426,321.08

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

FIXED ASSETS—Summary, October 31, 1946

System or Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
Southern Ontario system.	9,646,234.57	83,054,258.75	232,635,505.21	325,335,998.53
Thunder Bay system.	1,748,012.79	2,398,115.59	19,300,637.85	23,446,766.23
Service and administrative buildings and equipment.	68,318.50	869,607.94	3,488,394.64	4,426,321.08
	11,462,565.86	86,321,982.28	255,424,537.70	353,209,085.84
Less: Grants in aid of construction—Province of Ontario for rural power districts.				23,802,911.32
				329,406,174.52

**THE HYDRO-ELECTRIC POWER
CHANGES IN FIXED ASSETS—**

Class of asset	Balance at beginning of year	Expenditure during year
SOUTHERN ONTARIO SYSTEM POWER PLANTS		
Niagara Division:	\$ c.	\$ c.
Queenston-Chippawa	75,450,810.22	780.09
Ontario Power	21,724,157.35	1,799.80
Toronto Power	11,445,285.38	4,104.38
Chats Falls	7,190,536.46	201.84
Des Joachims	246,371.46	280,130.11
DeCew Falls	16,398,480.16	2,413,832.31
Ogoki diversion	4,856,062.57	11,169.62
Other properties	957,983.91	52.66
Georgian Bay Division:		
Eugenia	1,299,579.24	19,035.88
Ragged Rapids	1,331,999.04	251.35
Big Eddy	1,293,653.13	
Big Chute	685,137.13	717.79
South Falls	454,661.90	1,256.44
Trethewey Falls	357,267.92	
Other properties	758,030.05	4,264.90
Eastern Ontario Division:		
Hagues Reach	573,262.30	
Auburn	321,675.05	
Seymour	315,877.79	
Ranney Falls	1,438,452.15	
Heely Falls	1,202,813.99	1,176.42
Meyersburg	837,865.91	
High Falls	716,158.67	
Barrett Chute	4,516,782.95	23,498.86
Bark Lake dam	1,403,747.53	1,324.14
Calabogie	758,155.25	606.19
Stewartsville	30,087.81	2,392,035.64
Sills Island	320,105.38	
Intangible and undeveloped sites	2,687,761.29	
Other properties	1,161,982.30	8,469.82
	160,734,744.29	5,164,708.24
TRANSFORMER STATIONS		
Niagara Division	50,147,013.58	2,955,514.72
Georgian Bay Division	2,130,262.06	387,356.38
Eastern Ontario Division	4,947,483.27	633,233.29
	57,224,758.91	3,976,104.39
TRANSMISSION LINES		
Niagara Division:		
Lines	29,703,647.13	658,196.85
Right-of-way	8,852,416.49	16,604.61
Georgian Bay Division	2,828,245.96	1,013,522.57
Eastern Ontario Division	7,295,348.52	819,325.07
	48,679,658.10	2,507,649.10
LOCAL SYSTEMS		
Niagara Division	109,813.20	7,403.92
Georgian Bay Division	222,248.49	8,586.24
Eastern Ontario Division	30,436.10	3,210.27
	362,497.79	19,200.43
Sub-total	267,001,659.09	11,667,662.16

COMMISSION OF ONTARIO

During Year Ended October 31, 1946

Adjustment for equipment re-located	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves for renewals and contingencies	
\$ c. 8.90	\$ c. 28,220.00	\$ c. 20,000.00	\$ c. 75,403,379.21
.....	.....	8,480.00	21,717,477.15
.....	.....	7,500.00	11,441,889.76
.....	.....	.....	7,190,738.30
.....	.....	.....	526,501.57
1,220.00	.....	325.00	18,813,207.47
.....	.....	.....	4,867,232.19
.....	.....	.....	958,036.57
16,740.00	21.55	935.00	1,334,398.57
.....	.....	.....	1,332,250.39
.....	.....	90.00	1,293,653.13
.....	.....	.....	685,764.92
.....	.....	.....	455,918.34
104,859.50	1,594.27	.....	357,267.92
.....	.....	.....	865,560.18
.....	.....	.....	573,262.30
.....	.....	.....	321,675.05
.....	.....	.....	315,877.79
.....	.....	.....	1,438,452.15
70.00	.....	.....	1,203,920.41
.....	.....	.....	837,865.91
.....	.....	150.00	716,008.67
70.00	35.00	.....	4,540,316.81
.....	.....	.....	1,405,071.67
766.00	.....	.....	759,527.44
30.00	.....	.....	2,422,153.45
.....	.....	.....	320,105.38
.....	.....	.....	2,687,761.29
270.00	.....	58,265.16	1,111,916.96
123,354.40	29,870.82	95,745.16	165,897,190.95
35,010.00	169,080.34	130,370.75	52,768,067.21
25,412.71	15,061.55	41,959.66	2,486,009.94
55,709.83	27,040.67	39,360.57	5,458,605.49
65,307.12	211,182.56	211,690.98	60,712,682.64
23,337.90	8,259.10	61,602.61	30,268,644.37
1,591.00	15,039.70	790.43	8,854,781.97
33,144.00	12,343.97	29,626.95	3,766,653.61
6,289.33	2,293.84	13,494.29	8,092,596.13
61,180.23	37,936.61	105,514.28	50,982,676.08
.....	.....	.....	117,217.12
107,602.84	18.28	7.00	123,206.61
.....	5.44	294.87	33,346.06
107,602.84	23.72	301.87	273,769.79
110,735.79	279,013.71	413,252.29	277,866,319.46

THE HYDRO-ELECTRIC POWER

CHANGES IN FIXED ASSETS—

Class of asset	Balance at beginning of year	Expenditure during year
SOUTHERN ONTARIO SYSTEM—(Continued)		
RURAL POWER DISTRICT	\$ c.	\$ c.
H.-E.P.C. investment	21,703,642.19	2,340,353.52
Government grants	21,295,803.14	2,319,946.78
	42,999,445.33	4,660,300.30
RURAL LINES		
Georgian Bay Division	922.02	.....
Southern Ontario system—Total	310,002,026.44	16,327,962.46
THUNDER BAY SYSTEM:		
Power plants	16,960,969.61	763,637.80
Transformer stations	1,319,981.81	124,195.55
Transmission lines	2,687,478.13	952,461.86
Local systems	88,027.26	4,159.81
Sub-total	21,056,456.81	1,844,455.02
RURAL POWER DISTRICT		
H.-E.P.C. investment	273,372.74	9,488.45
Government grants	273,372.73	9,488.46
	546,745.47	18,976.91
Thunder Bay system—Total	21,603,202.28	1,863,431.93
SERVICE AND ADMINISTRATIVE BUILDINGS AND EQUIPMENT:		
Toronto—University avenue	2,974,453.54	128,082.50
—Elm and Centre streets	113,322.00	.....
—Strachan avenue	586,623.76	55,485.83
Other properties and equipment	625,126.85	59,455.05
Total	4,299,526.15	243,023.38
Grand total	335,904,754.87	18,434,417.77
Less: Grants in aid of construction:		
Province of Ontario for rural power districts ..	21,569,175.87	2,233,735.45
Total fixed assets	314,335,579.00	16,200,682.32

COMMISSION OF ONTARIO

During Year Ended October 31, 1946

Adjustment for equipment re-located	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves for renewals and contingencies	
\$ c. 54,947.39 54,818.40	\$ c. 135,509.18 135,509.19	\$ c. 14,871.50 14,864.50	\$ c. 23,948,562.42 23,520,194.63
109,765.79	271,018.37	29,736.00	47,468,757.05
			922.02
970.00	550,032.08	442,988.29	325,335,998.53
935.00	28.21 0.29	*15,753.80 693.49 3,659.69 343.50 35.00	17,709,066.91 1,440,517.38 3,639,596.49 92,152.07
935.00	28.50	20,485.48	22,881,332.85
		144.50 144.50	282,716.69 282,716.69
		289.00	565,433.38
935.00	28.50	20,774.48	23,446,766.23
35.00	80,000.00	33,322.00 2,941.45	3,102,571.04 639,168.14 684,581.90
35.00	80,000.00	36,263.45	4,426,321.08
	630,060.58	500,026.22	353,209,085.84
			23,802,911.32
	630,060.58	500,026.22	329,406,174.52

Renewals..... 282,600.87

Contingencies..... 201,671.55

*To operation..... 15,753.80

500,026.22

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

RURAL POWER DISTRICTS

CAPITAL EXPENDITURES AND GRANTS—Summary at October 31, 1946

Statement showing the Total Capital Expenditures in Rural Power Districts to October 31, 1946; the Grants payable to the Commission by the Province of Ontario in respect thereto; and the amounts paid to the Commission on account of such Grants to October 31, 1946

	Accumulated total to October 31, 1945	During the year	Accumulated total to October 31, 1946
	\$ c.	\$ c.	\$ c.
Total capital expenditures less retirements—			
Southern Ontario district.....	42,999,445.33	4,469,311.72	47,468,757.05
Thunder Bay district.....	546,745.47	18,687.91	565,433.38
	43,546,190.80	4,487,999.63	48,034,190.43
Northern Ontario Properties district.....	990,289.74	272,490.34	1,262,780.08
	44,536,480.54	4,760,489.97	49,296,970.51
Less: Portion of expenditures not subject to			
Provincial grant*—			
Southern Ontario district.....	407,839.06	20,528.73	428,367.79
Thunder Bay district.....			
Northern Ontario Properties district.....	83,793.90	1,166.36	84,960.26
	*491,632.96	21,695.09	513,328.05
Balance of expenditures less retirements sub-			
ject to Provincial grants (all districts)....	44,044,847.58	4,738,794.88	48,783,642.46
Grants payable by the Province as authorized			
by Order-in-Council (50%)—			
Southern Ontario district and Thunder			
Bay district.....	21,569,175.87	2,233,735.45	23,802,911.32
Northern Ontario Properties district.....	453,247.92	135,661.99	588,909.91
	22,022,423.79	2,369,397.44	24,391,821.23
Amounts paid by the Province to the Commis-			
sion on account of such authorized grants.	21,695,108.10	†1,950,000.00	23,645,108.10
Balance owing by the Province.....	327,315.69	419,397.44	746,713.13

*Grants not paid by the Province in respect of a summer resort, street lighting systems, service buildings, amounts paid for business already established and one transformer station

†Includes \$327,315.69 in respect of 1945.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Account with The Provincial Treasurer of the Province of Ontario

As at October 31, 1946

ADVANCES FROM AND REPAYMENTS TO THE PROVINCE OF ONTARIO

	Total	Northern Ontario Properties operated for the Province of Ontario	Southern Ontario and Thunder Bay systems operated on a "cost basis"
	\$ c.	\$ c.	\$ c.
ADVANCES FOR CAPITAL EXPENDITURES:			
Cash advances made by the Province to the Commission for capital expenditure purposes during the years 1909 to 1934, inclusive.	207,250,258.34	8,331,113.46	198,919,144.88
Cash returned by the Commission to the Province on April 30, 1935, to cover the difference between advances made by the Province to the Commission during the year ended October 31, 1934 and the capital expenditures made out of such advances by the Commission in that year.	247,507.98	74,001.99	173,505.99
Total advances for capital expenditures.	207,002,750.36	8,257,111.47	198,745,638.89
REPAYMENT OF ADVANCES—1926 to 1933:			
Cash repayments made by the Commission annually to October 31, 1933, in accordance with the 1926 debt retirement plan.	17,008,616.73	3,061.39	17,005,555.34
Balance of advances at October 31, 1934 (before deducting \$2,412,398.33 on deposit with the Province at that date for debt retirement).	189,994,133.63	8,254,050.08	181,740,083.55
REPAYMENT OF ADVANCES—1934 to 1946:			
Cash repayments made by the Commission under new retirement plan, equal to the maturities in the period November 1, 1934 to October 31, 1946, of Province of Ontario bonds allocated as issued for the Commission's purposes— Total to October 31, 1945. \$95,147,100.87 During the year ended October 31, 1946. 2,879,705.62	98,026,806.49	2,756,146.43	95,270,660.06
Balance of advances at October 31, 1946.	91,967,327.14	5,497,903.65	86,469,423.49
Payable in the following currencies:			
Canadian.	16,998,565.89	619,071.33	16,379,494.56
Sterling.	71,202.66	768.80	70,433.86
Canadian or United States.	8,718,026.01	4,799.73	8,713,226.28
Canadian, United States or Sterling.	66,179,532.58	4,873,263.79	61,306,268.79
	91,967,327.14	5,497,903.65	86,469,423.49

THE HYDRO-ELECTRIC POWER

FUNDED DEBT as at

(Guaranteed as to principal and

Description	Date of maturity	Date of issue
2½% Serial debentures.....	Feb. 15, 1947/49	Feb. 15, 1941
2½% " ".....	May 1, 1947/49	May 1, 1942
3% " ".....	Aug. 1, 1947	Aug. 1, 1942
3½% Debentures.....	April 1, 1947	April 1, 1937
1½% " ".....	Sept. 1, 1947	Sept. 1, 1944
2½% " ".....	Jan. 1, 1948	Jan. 1, 1943
2¼% " ".....	Sept. 1, 1948	Sept. 1, 1943
2½% " ".....	Feb. 1, 1949	Feb. 1, 1943
2% " ".....	Jan. 1, 1950	Jan. 1, 1945
3% Serial debentures.....	May 1, 1950/52	May 1, 1942
3% Debentures.....	Feb. 1, 1951	Feb. 1, 1943
3% " ".....	Jan. 1, 1953	Jan. 1, 1943
3¼% " ".....	Feb. 1, 1953	Feb. 1, 1938
4% " ".....	Aug. 1, 1957	Aug. 1, 1917
4% " ".....	June 1, 1958	June 1, 1918
4% " ".....	Dec. 1, 1958	Dec. 1, 1918
3% " ".....	Jan. 1, 1960	Jan. 1, 1945
4¾% " ".....	Jan. 1, 1970	Jan. 1, 1930
2¾% " ".....	June 1, 1971	June 1, 1946
Total Funded Debt (at par of exchange).....		

Funded Debt issued to finance:

Southern Ontario and Thunder Bay Systems.....	\$72,789,400.00
Northern Ontario Properties.....	30,833,600.00
	<u>\$103,623,000.00</u>

Summary of changes in funded debt during year ended October 31, 1946

Outstanding as at October 31, 1945.....	\$106,898,000.00
Redemptions during the year.....	23,275,000.00
	<u>\$83,623,000.00</u>
New bond issue during the year.....	20,000,000.00
	<u>\$103,623,000.00</u>
Outstanding as at October 31, 1946.....	<u>\$103,623,000.00</u>

COMMISSION OF ONTARIO

October 31, 1946

interest by the Province of Ontario)

Principal outstanding October 31, 1946	Where payable	Remarks
\$ c.		
5,625,000.00	Canada	\$1,875,000.00 maturing annually.
3,000,000.00	Canada	\$1,000,000.00 maturing annually.
900,000.00	N.Y.	\$900,000.00 maturing annually.
7,934,000.00	Canada	
2,000,000.00	N.Y.	
2,000,000.00	N.Y.	
4,500,000.00	N.Y.	
2,000,000.00	Canada	
5,000,000.00	Canada	
3,000,000.00	Canada	\$1,000,000.00 maturing annually.
6,000,000.00	Canada	
5,000,000.00	N.Y.	Callable on or after Jan. 1, 1951 at 101.
9,000,000.00	Canada	Callable on or after Feb. 1, 1950 at 100
8,000,000.00	C., N.Y., L.	
200,000.00	Toronto	
100,000.00	Toronto	
7,500,000.00	Canada	Callable on or after Jan. 1, 1955 at 100.
11,864,000.00	Canada	
20,000,000.00	Canada	Callable at par, in whole or in part, June 1, 1961.
103,623,000.00		

Payable in the following currencies:

Canadian.....	\$81,223,000.00
Canadian, United States, or Sterling.....	8,000,000.00
United States.....	14,400,000.00
	<u>\$103,623,000.00</u>

**THE HYDRO-ELECTRIC POWER
POWER ACCOUNTS RECEIVABLE**

System or property	Wholesale consumers			
	Interim power bills	Accumulated amount standing as a charge or credit on October 31, 1946		Net total for wholesale consumers
		Charge	Credit	
SOUTHERN ONTARIO SYSTEM:	\$ c.	\$ c.	\$ c.	\$ c.
Municipalities.....	2,980,883.77	.....	2,794,887.84	185,995.93
Companies.....	1,125,275.66	.....	.....	1,125,275.66
Local and rural.....	.....	.....	.....	.....
	4,106,159.43	.....	2,794,887.84	1,311,271.59
THUNDER BAY SYSTEM:				
Municipalities.....	116,997.50	.....	59,809.65	57,187.85
Companies.....	111,953.13	.....	.....	111,953.13
Local and rural.....	.....	.....	.....	.....
	228,950.63	.....	59,809.65	169,140.98
Grand totals.....	4,335,110.06	.....	2,854,697.49	1,480,412.57

Sundry Accounts Receivable

Arising from construction of works, sale of electrical equipment, etc.....
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**THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
RENEWAL RESERVES—October 31, 1946**

	Southern Ontario system	Thunder Bay system	Service and administrative buildings and equipment	Totals for power undertakings operated on a "cost basis"
	\$ c.	\$ c.	\$ c.	\$ c.
Balances at November 1, 1945	60,520,519.65	4,543,153.85	815,050.37	65,878,723.87
Provision in the year—direct..	2,670,559.08	176,754.39	.....	2,847,313.47
—indirect.....	.....	.....	32,696.89	32,696.89
Interest at 4% on reserve balances.....	2,419,774.91	181,726.16	22,493.92	2,623,994.99
Sub-total.....	65,610,853.64	4,901,634.40	870,241.18	71,382,729.22
Less:				
Expenditures in the year for renewals.....	99,020.01	54.11	4,195.86	103,269.98
Amount withdrawn in respect of assets removed from service, etc.....	244,596.28	1,741.14	36,263.45	282,600.87
Adjustments for excess re- serve on retirements.....	190,427.33	.....	.....	190,427.33
Sundry charges.....	10,276.99	(576.99)	.....	9,700.00
Balances at October 31, 1946..	65,066,533.03	4,900,416.14	829,781.87	70,796,731.04

COMMISSION OF ONTARIO

October 31, 1946

Retail power consumers local and rural districts	Net total of power accounts receivable	Balance sheet figures		Debit balances three months or more overdue
		Debit balances	Credit balances	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	185,995.93	655,759.45	469,763.52	.....
.....	1,125,275.66	1,125,275.66	.....	.....
1,395,103.47	1,395,103.47	1,395,103.47	.....	10,926.34
1,395,103.47	2,706,375.06	3,176,138.58	469,763.52	10,926.34
.....	57,187.85	57,257.18	69.33	.....
.....	111,953.13	116,408.06	4,454.93	.....
16,225.64	16,225.64	16,225.64	.....	1,948.67
16,225.64	185,366.62	189,890.88	4,524.26	1,948.67
1,411,329.11	2,891,741.68	3,366,029.46	474,287.78	12,875.01

—October 31, 1946

.....	\$ c.	.....	\$ c.
.....	542,380.22	.....	12,109.11

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

CONTINGENCIES AND OBSOLESCENCE RESERVES—October 31, 1946

	Southern Ontario system	Thunder Bay system	Totals for power undertakings operated on a "cost basis"
	\$ c.	\$ c.	\$ c.
Balances at November 1, 1945.....	40,000,747.75	4,009,492.75	44,010,240.50
Excess renewals provision accumulated against assets retired, transferred from renewals reserve.....	190,427.33	.....	190,427.33
Profit on sale of investments, etc.....	86,800.49	.....	86,800.49
Provision in the year as per cost statement...	8,575,543.00	557,433.79	9,132,976.79
Interest at 4% on reserve balances.....	1,596,268.25	154,673.52	1,750,941.77
Sub-total.....	50,449,786.82	4,721,600.06	55,171,386.88
Less:			
Contingencies met with during the year..	684,046.23	58,338.47	742,384.70
Excess of fixed asset retirements over accumulated renewals provision.....	198,392.01	3,279.54	201,671.55
Balances at October 31, 1946.....	49,567,348.58	4,659,982.05	54,227,330.63

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
STABILIZATION OF RATES RESERVES—October 31, 1946

	Southern Ontario system	Thunder Bay		Totals for power undertakings operated on a "cost basis"
		System	Mining area	
Balances at November 1, 1945	\$ c. 16,314,963.40	\$ c. 456,996.31	\$ c. 371,914.19	\$ c. 17,143,873.90
Interest at 4% on reserve balances.....	652,598.53	18,279.85	14,876.57	685,754.95
Credits arising from the sale by the Commission during 1946 of all the shares of The Hamilton Street Railway Company:—				
Recovery of reserve against investment in The Hamilton Street Railway Company not required (created by Niagara system prior to amalgamation in the Southern Ontario system as approved in 1944) and to be held for the benefit of the municipalities comprising the Niagara division of the Southern Ontario system.....	1,545,949.64			1,545,949.64
Special dividends paid by The Hamilton Street Railway Company prior to closing the sale in order to distribute certain current assets as provided by the terms and conditions of sale	697,620.96			697,620.96
Deduct:	19,211,132.53	475,276.16	386,790.76	20,073,199.45
Amount appropriated re cost of power, in the year, to mining area.....			90,335.81	90,335.81
Balances at October 31, 1946..	19,211,132.53	475,276.16	296,454.95	19,982,863.64

NOTE: The above amount of \$19,211,132.53 includes special accounts of \$1,545,949.64, \$693,514.15 and \$367,723.94 pertaining to municipalities of the Niagara, Eastern Ontario and Georgian Bay divisions respectively.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
SINKING FUND RESERVES—October 31, 1946

	Southern Ontario system	Thunder Bay system	Service and administrative buildings and equipment	Totals for power undertakings operated on a "cost basis"
	\$ c.	\$ c.	\$ c.	\$ c.
Balances at November 1, 1945	81,231,828.05	4,392,584.61	860,557.11	86,484,969.77
Provision in the year—direct..	3,038,449.91	212,529.17		3,250,979.08
—indirect.....			40,694.91	40,694.91
Interest at 4% on reserve balances.....	3,249,273.12	175,703.39	34,422.28	3,459,398.79
Balances at October 31, 1946..	87,519,551.08	4,780,817.17	935,674.30	93,236,042.55

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

STATEMENTS FOR MUNICIPALITIES
RECEIVING POWER UNDER COST CONTRACTS

For the year ended October 31, 1946

STATEMENTS FOR EACH SYSTEM

Cost of Power	Credit or Charge
Sinking Fund	Rural Operating

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount billed by the Commission against
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Com- mission during year	Share of capital cost of system	Average horse- power supplied in year after correc- tion for power factor	Share of operating		
	To October 31, 1946			Cost of power pur- chased	Operating main- tenance and adminis- trative expenses*	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Acton.....	27.50	331,245.55	1,994.1	11,620.04	9,525.00	13,500.71
Agincourt.....	27.50	46,910.03	280.6	1,635.11	1,409.16	1,914.39
Ailsa Craig.....	35.50	36,365.47	183.8	1,071.04	1,360.51	1,479.81
Alexandria.....	39.00	95,446.33	415.3	2,420.04	2,866.92	3,915.29
Alliston.....	37.50	110,005.55	571.0	3,327.34	3,261.09	4,510.34
Almonte.....	28.00	76,352.44	459.3	2,676.44	2,651.39	3,141.57
Alvinston.....	39.00	37,470.14	164.0	955.66	1,608.39	1,539.16
Amherstburg.....	31.50	250,024.90	1,258.6	7,334.12	7,002.06	9,974.22
Ancaster Twp.....	26.00	103,357.15	545.9	3,181.07	2,896.56	3,964.50
Apple Hill.....	39.00	10,749.51	55.7	324.58	443.10	437.86
Arkona.....	39.00	25,940.48	82.1	478.41	817.63	1,066.51
Arnprior.....	25.00	228,191.12	1,586.9	9,247.20	6,651.56	9,292.11
Arthur.....	39.00	59,157.86	220.2	1,283.15	2,891.10	2,331.68
Athens.....	39.00	38,885.58	154.6	900.89	1,181.68	1,583.46
Aurora.....	27.00	285,806.13	1,788.5	10,421.96	7,784.14	11,548.50
Aylmer.....	29.00	183,236.30	1,111.1	6,474.61	5,943.10	7,687.78
Ayr.....	32.00	55,795.99	299.3	1,744.08	1,800.30	2,273.50
Baden.....	26.50	103,244.11	624.5	3,639.09	3,133.45	4,133.15
Barrie.....	26.50	737,579.60	5,357.3	31,218.10	17,979.58	28,899.62
Bath.....	39.00	19,682.51	62.5	364.20	595.41	788.06
Beachville.....	27.50	133,746.93	788.4	4,594.17	3,939.02	5,446.41
Beamsville.....	25.00	94,505.04	646.2	3,765.54	2,554.42	3,729.23
Beaverton.....	36.00	59,780.51	356.2	2,075.65	2,708.14	2,391.82
Beeton.....	39.00	36,726.94	130.3	759.29	1,204.04	1,523.84
Belle River.....	31.50	57,925.98	277.4	1,616.47	1,924.93	2,253.86
Belleville.....	22.00	1,079,391.23	8,953.5	52,173.91	30,349.29	43,875.50
Blenheim.....	30.50	144,136.16	781.4	4,553.38	4,927.92	5,815.76
Bloomfield.....	39.00	33,846.17	156.5	911.96	1,135.77	1,376.58
Blyth.....	39.00	38,110.47	166.6	970.81	1,478.94	1,524.20
Bobcaygeon.....	53.00	19,007.76	30.1	175.40	209.10	422.86
Bolton.....	31.00	55,080.46	294.5	1,716.11	1,806.40	2,236.44
Bothwell.....	35.50	39,728.78	183.9	1,071.62	1,619.27	1,613.42
Bowmanville.....	26.00	481,840.69	3,126.3	18,217.60	16,292.69	19,710.24
Bradford.....	39.00	71,478.88	364.9	2,126.35	2,699.20	2,923.62
Braeside.....	27.00	31,625.32	204.3	1,190.50	1,034.88	1,288.93
Brampton.....	25.00	541,094.16	3,757.0	21,892.82	15,278.52	22,112.68
Brantford.....	22.50	3,431,545.25	23,992.1	139,806.96	93,671.59	140,640.68
Brantford Twp.....	27.00	283,933.52	1,952.0	11,374.71	10,462.40	11,586.84
Brechin.....	39.00	15,501.91	68.2	397.42	606.88	627.78
Bridgeport.....	29.00	47,876.94	273.0	1,590.83	1,437.97	1,959.09

* After crediting the amounts, totalling \$2,337.94 required to reduce the costs of power to \$39.00 per horsepower maximum.

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1946

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,001.95	10,342.34	3,478.68	4,855.26	46,613.46	54,838.90	8,225.44
410.55	1,448.22	492.73	683.22	6,626.94	7,717.18	1,090.24
363.74	970.44	382.15	447.52	5,180.17	6,524.30	1,344.13
1,330.18	2,210.77	1,003.15	1,011.18	12,735.17	16,197.70	3,462.53
1,445.50	2,974.51	1,171.28	1,390.27	15,299.79	21,410.95	6,111.16
884.13	2,353.90	800.39	1,118.31	11,389.51	12,859.78	1,470.27
395.69	882.42	393.86	399.31	5,375.87	6,394.08	1,018.21
2,360.83	6,686.88	2,579.47	3,064.45	32,873.13	39,647.23	6,774.10
922.86	2,854.44	1,020.02	1,329.16	13,510.29	14,194.26	683.97
137.37	293.89	112.93	135.62	1,614.11	2,173.32	559.21
305.72	461.15	272.73	199.90	3,202.25	3,202.25	.....
2,352.38	8,075.91	2,395.58	3,863.79	34,150.95	39,673.32	5,522.37
832.59	1,187.27	596.55	536.14	8,586.20	8,586.20	.....
558.62	828.28	406.84	376.42	5,083.35	6,028.78	945.43
2,376.39	9,180.73	2,975.64	4,354.65	39,932.71	48,288.17	8,355.46
1,732.44	5,786.11	1,982.68	2,705.31	26,901.41	32,222.84	5,321.43
541.66	1,579.93	586.23	728.74	7,796.96	9,577.59	1,780.63
900.83	3,231.58	1,066.10	1,520.54	14,583.66	16,549.04	1,965.38
6,961.30	26,959.65	7,513.96	13,043.99	106,488.22	141,967.11	35,478.89
296.29	343.85	201.56	152.18	2,437.19	2,437.19	.....
1,227.85	4,118.82	1,405.01	1,919.60	18,811.68	21,681.89	2,870.21
768.77	3,284.19	960.83	1,573.37	13,489.61	16,155.80	2,666.19
700.64	1,835.26	624.79	867.28	9,469.02	12,822.00	3,352.98
562.34	713.80	389.68	317.26	4,835.73	5,081.73	246.00
533.39	1,473.92	577.69	675.42	7,704.84	8,737.07	1,032.23
9,110.82	44,754.00	11,325.10	21,800.04	169,788.58	196,977.36	27,188.78
1,343.72	4,110.00	1,498.95	1,902.56	20,347.17	23,832.44	3,485.27
458.84	828.88	355.68	381.05	4,686.66	6,103.53	1,416.87
393.74	893.35	393.67	405.64	5,249.07	6,498.41	1,249.34
163.46	168.37	108.00	73.29	1,173.90	1,597.08	423.18
511.96	1,532.34	574.68	717.05	7,660.88	9,130.27	1,469.39
402.57	990.17	413.38	447.76	5,662.67	6,528.76	866.09
5,279.88	16,045.56	5,059.33	7,611.93	72,993.37	81,284.22	8,290.85
940.54	1,911.23	757.34	888.46	10,469.82	14,231.14	3,761.32
347.81	1,045.33	332.08	497.43	4,742.10	5,517.24	775.14
4,449.80	19,092.01	5,681.77	9,147.57	79,360.03	93,924.18	14,564.15
27,801.40	122,234.32	36,028.23	58,416.11	501,767.07	539,822.42	38,055.35
2,322.94	9,956.90	2,974.09	4,752.74	43,925.14	52,704.94	8,779.80
215.27	361.52	162.34	166.05	2,205.16	2,659.83	454.67
446.46	1,421.96	503.01	664.70	6,694.62	7,917.72	1,223.10

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount billed by the Commission against
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Com- mission during year	Share of capital cost of system	Average horse- power supplied in year after correc- tion for power factor	Share of operating		
	To October 31, 1946			Cost of power pur- chased	Operating main- tenance and adminis- trative expenses*	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Brigden.....	39.00	31,486.68	139.8	814.64	1,412.11	1,289.81
Brighton.....	27.50	97,117.29	633.0	3,688.62	2,958.38	3,955.35
Brockville.....	24.50	972,736.52	6,703.1	39,060.36	28,205.75	39,708.53
Brussels.....	39.00	49,922.36	228.1	1,329.19	1,850.51	2,001.49
Burford.....	28.00	53,998.87	332.7	1,938.71	1,832.96	2,200.48
Burgessville.....	39.00	19,983.84	92.7	540.18	868.92	821.07
Burlington.....	24.50	298,629.32	2,060.3	12,005.80	10,939.75	12,222.79
Caledonia.....	27.00	78,716.40	476.6	2,777.25	2,321.96	3,192.60
Campbellville.....	39.00	16,953.20	61.8	360.12	618.01	693.77
Cannington.....	34.50	47,919.89	292.3	1,703.29	1,941.80	1,929.14
Cardinal.....	26.50	71,098.57	444.0	2,587.28	1,892.72	2,667.02
Carleton Place.....	25.50	304,303.93	2,162.7	12,602.50	8,027.78	12,341.39
Cayuga.....	39.00	48,414.94	214.8	1,251.68	1,504.72	1,965.57
Chatham.....	25.50	1,384,361.87	8,598.9	50,107.58	42,045.21	55,904.78
Chatsworth.....	37.50	24,686.55	124.5	725.49	748.57	996.21
Chesley.....	31.00	118,614.37	726.1	4,231.14	3,079.53	4,776.96
Chesterville.....	30.00	70,594.39	402.5	2,345.45	2,333.91	2,875.62
Chippawa.....	21.50	49,791.78	440.2	2,565.14	1,688.22	2,025.63
Clifford.....	39.00	34,845.93	132.3	770.94	1,736.66	1,432.83
Clinton.....	30.50	149,286.72	833.5	4,856.98	4,800.23	6,094.39
Cobden.....	39.00	41,725.03	171.3	998.20	1,552.94	1,667.89
Cobourg.....	26.50	393,419.57	2,685.6	15,649.55	13,851.46	16,006.63
Colborne.....	30.50	51,747.65	304.1	1,772.05	1,812.07	2,102.97
Coldwater.....	33.50	37,820.86	208.8	1,216.72	1,009.63	1,511.49
Collingwood.....	27.50	422,390.97	2,774.0	16,164.68	11,306.62	16,748.03
Comber.....	38.50	40,367.82	180.1	1,049.48	1,569.69	1,626.55
Cookstown.....	35.50	21,800.51	120.1	699.85	638.40	893.79
Cottam.....	38.00	24,932.83	113.2	659.64	852.49	997.23
Courtright.....	39.00	16,560.78	64.9	378.19	648.79	680.66
Creemore.....	38.50	37,721.83	201.6	1,174.77	1,316.49	1,503.27
Dashwood.....	34.00	30,549.31	145.6	848.44	1,012.22	1,247.29
Delaware.....	29.00	15,905.02	98.0	571.07	608.41	648.20
Delhi.....	31.00	130,577.63	732.7	4,269.60	4,002.35	5,318.75
Deseronto.....	35.00	56,274.85	306.7	1,787.20	1,881.10	2,281.76
Dorchester.....	33.00	24,036.69	136.2	793.67	816.13	972.51
Drayton.....	39.00	47,606.86	168.5	981.88	2,067.09	1,956.34
Dresden.....	32.50	123,785.48	601.4	3,504.48	4,001.28	4,997.06
Drumbo.....	31.50	23,923.76	134.0	780.85	990.73	979.82
Dublin.....	39.00	11,071.49	55.7	324.58	426.81	450.52
Dundalk.....	31.00	50,101.30	288.5	1,681.15	1,519.88	1,879.80

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1946

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
330.49	752.30	330.96	340.39	4,589.92	5,451.57	861.65
1,060.24	3,259.99	1,019.76	1,541.23	14,401.11	17,407.74	3,006.63
10,113.95	34,030.03	10,212.41	16,320.75	145,010.28	164,226.35	19,216.07
505.24	1,217.47	515.24	555.38	6,863.76	8,894.63	2,030.87
481.77	1,722.48	567.17	810.06	7,933.51	9,316.78	1,383.27
208.24	493.04	210.04	225.71	2,915.78	3,613.69	697.91
2,463.81	10,495.67	3,132.61	5,016.43	46,244.00	50,477.99	4,233.99
706.54	2,474.23	820.93	1,160.43	11,133.08	12,867.31	1,734.23
192.81	340.97	177.43	150.47	2,232.64	2,411.53	178.89
552.21	1,500.21	500.74	711.69	7,415.70	10,083.78	2,668.08
693.97	2,270.71	689.11	1,081.05	9,719.76	11,764.90	2,045.14
3,072.22	10,984.55	3,194.41	5,265.76	44,957.09	55,148.86	10,191.77
510.85	1,149.98	505.06	523.00	6,364.86	8,376.57	2,011.71
11,772.19	44,439.05	14,378.77	20,936.66	197,710.92	219,271.30	21,560.38
320.72	663.42	258.31	303.13	3,409.59	4,670.32	1,260.73
1,363.37	3,737.74	1,239.47	1,767.91	16,660.30	22,510.39	5,850.09
846.82	2,093.60	739.33	980.01	10,254.72	12,074.25	1,819.53
341.17	2,183.41	522.43	1,071.80	8,254.20	9,463.59	1,209.39
385.99	724.63	366.49	322.12	5,095.42	5,160.04	64.62
1,399.62	4,347.06	1,569.24	2,029.41	21,038.11	25,420.47	4,382.36
581.36	922.48	430.99	417.08	5,736.78	6,680.73	943.95
4,125.92	13,725.04	4,130.44	6,538.92	60,950.12	71,167.74	10,217.62
611.18	1,591.10	543.51	740.42	7,692.46	9,274.05	1,581.59
466.27	1,088.23	395.50	508.39	5,179.45	6,996.21	1,816.76
4,499.32	14,104.52	4,361.81	6,754.15	60,430.83	76,283.87	15,853.04
422.19	966.42	420.91	438.51	5,616.73	6,933.20	1,316.47
277.30	627.60	232.28	292.42	3,076.80	4,263.83	1,187.03
249.01	606.50	257.75	275.62	3,347.00	4,300.64	953.64
182.58	353.82	174.11	158.02	2,260.13	2,530.16	270.03
467.89	1,044.85	391.18	490.86	5,407.59	7,760.02	2,352.43
314.28	774.66	321.06	354.51	4,163.44	4,950.12	786.68
141.67	507.32	167.06	238.61	2,405.12	2,842.73	437.61
1,230.63	3,823.11	1,371.60	1,783.98	18,232.06	22,713.44	4,481.38
698.10	1,616.20	591.17	746.76	8,108.77	10,733.60	2,624.83
225.88	709.66	252.53	331.62	3,438.76	4,493.26	1,054.50
539.63	937.00	500.48	410.26	6,572.16	6,572.16	.....
1,227.79	3,214.33	1,289.57	1,464.29	16,770.22	19,544.96	2,774.74
227.48	700.11	251.91	326.26	3,604.64	4,220.99	616.35
109.96	297.30	116.40	135.62	1,589.95	2,171.02	581.07
531.92	1,482.57	487.32	702.44	6,880.20	8,942.99	2,062.79

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating			
	To October 31, 1946			Cost of power purchased	Operating maintenance and administrative expenses*	Interest	
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.	
Dundas.....	22.50	466,977.40	3,303.0	19,247.27	11,490.74	18,876.10	
Dunnville.....	25.00	256,386.56	1,694.1	9,871.87	7,189.03	10,811.69	
Durham.....	32.50	88,683.90	493.5	2,875.73	2,938.61	3,512.40	
Dutton.....	31.50	51,966.64	298.5	1,739.92	1,973.75	2,112.39	
East York Twp.....	24.00	1,698,708.30	11,950.6	69,638.63	43,474.51	69,146.93	
Elmira.....	28.50	255,534.79	1,659.0	9,667.34	7,491.62	10,374.29	
Elmvale.....	33.00	37,348.12	192.9	1,124.07	1,445.47	1,437.88	
Elmwood.....	39.00	21,380.77	102.3	596.12	777.45	873.91	
Elora.....	29.50	100,335.00	550.3	3,206.71	3,277.09	4,097.37	
Embro.....	31.50	35,105.95	187.8	1,094.35	1,272.54	1,436.00	
Erieau.....	39.00	52,998.13	201.8	1,175.93	1,706.16	1,987.12	
Erie Beach.....	39.00	8,195.45	28.1	163.75	372.99	307.92	
Essex.....	30.50	145,102.64	745.2	4,342.44	4,121.25	5,802.18	
Etobicoke Twp.....	24.00	1,753,972.61	12,166.3	70,895.56	49,334.64	71,616.00	
Exeter.....	30.00	170,895.40	953.3	5,555.08	5,303.67	6,980.99	
Fergus.....	27.50	265,541.89	1,635.8	9,532.15	8,957.61	10,858.80	
Finch.....	38.50	26,002.68	133.9	780.26	967.15	1,051.39	
Flesherton.....	39.00	17,750.27	98.7	575.15	735.58	692.48	
Fonthill.....	28.00	38,528.96	249.6	1,454.47	1,162.58	1,566.20	
Forest.....	36.50	141,400.11	725.4	4,227.06	5,034.25	5,712.18	
Forest Hill.....	22.00	1,170,994.24	8,449.6	49,237.58	29,735.30	47,420.84	
Galt.....	22.50	1,897,590.73	13,130.6	76,514.74	52,227.78	77,857.00	
Georgetown.....	29.00	423,863.45	2,411.6	14,052.90	12,879.26	17,284.01	
Glencoe.....	39.00	66,815.53	255.1	1,486.52	2,519.71	2,718.64	
Goderich.....	32.50	396,384.92	1,966.0	11,456.29	11,694.73	16,178.98	
Grand Valley.....	39.00	46,942.97	207.1	1,206.81	1,843.84	1,817.68	
Granton.....	38.00	16,459.07	78.3	456.27	666.39	668.59	
Gravenhurst.....	25.00	220,906.25	1,575.9	9,183.10	5,572.81	8,942.77	
Grimsbv.....	26.00	173,231.38	1,133.7	6,606.31	5,236.35	7,075.50	
Guelph.....	23.00	1,939,793.74	13,622.8	79,382.89	56,731.09	79,429.09	
Hagersville.....	28.00	196,823.39	1,095.3	6,382.54	5,047.55	7,999.19	
Hamilton.....	20.50	21,237,825.82	156,071.1	909,458.79	513,429.85	865,521.45	
Hanover.....	27.00	237,210.38	1,675.1	9,761.16	6,017.50	9,509.74	
Harriston.....	34.50	124,667.09	591.8	3,448.54	4,467.00	5,104.72	
Harrow.....	33.50	145,278.03	691.6	4,030.10	4,229.10	5,796.41	
Hastings.....	37.00	32,709.42	177.5	1,034.33	1,105.06	1,331.67	
Havelock.....	39.00	46,069.38	218.0	1,270.33	1,613.33	1,887.34	
Hensall.....	37.50	62,917.72	274.3	1,598.40	1,970.00	2,579.15	
Hespeler.....	24.00	458,313.89	3,181.5	18,539.26	12,868.31	18,716.65	
Highgate.....	36.50	24,930.86	115.0	670.13	904.80	1,008.51	

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1946

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,701.89	16,782.82	4,850.63	8,042.16	66,907.29	74,317.50	7,410.21
2,424.25	8,656.35	2,774.39	4,124.81	37,602.77	42,352.90	4,750.13
1,057.50	2,548.31	911.32	1,201.58	12,642.29	16,038.22	3,395.93
484.36	1,558.09	545.94	726.79	7,687.16	9,403.27	1,716.11
12,997.32	60,577.11	17,834.92	29,097.39	244,572.03	286,814.60	42,242.57
2,181.94	8,504.34	2,683.92	4,039.34	36,864.11	47,281.74	10,417.63
444.16	1,004.65	372.44	469.67	5,359.00	6,365.71	1,006.71
285.48	551.90	223.80	249.08	3,059.58	3,990.06	930.48
962.28	2,888.16	1,053.95	1,339.87	14,145.69	16,233.85	2,088.16
341.18	988.41	368.87	457.26	5,044.09	5,916.22	872.13
526.56	1,094.02	513.13	491.35	6,511.57	7,870.57	1,359.00
83.63	154.21	78.70	68.42	1,092.78	1,094.63	1.85
1,353.82	3,945.05	1,496.38	1,814.42	19,246.70	22,728.09	3,481.39
14,343.00	62,036.42	18,372.73	29,622.58	256,975.77	291,990.00	35,014.23
1,620.85	4,982.50	1,795.49	2,321.10	23,917.48	28,598.50	4,681.02
2,369.79	8,424.44	2,788.50	3,982.86	38,948.43	44,984.73	6,036.30
332.07	697.09	272.46	326.02	3,774.40	5,153.23	1,378.83
208.10	508.41	180.47	240.32	2,659.87	3,847.69	1,187.82
345.71	1,276.25	404.66	607.73	5,602.14	6,988.32	1,386.18
1,385.18	3,836.31	1,485.87	1,766.21	19,914.64	26,477.09	6,562.45
8,548.81	42,662.24	12,178.01	20,573.14	169,209.64	185,891.51	16,681.87
15,507.91	66,973.60	19,925.88	31,970.47	277,036.44	295,438.87	18,402.43
3,979.46	12,560.82	4,451.99	5,871.78	59,336.66	69,935.43	10,598.77
734.02	1,394.69	696.68	621.12	8,929.14	9,950.57	1,021.43
3,965.18	10,374.02	4,167.45	4,786.83	53,049.82	63,894.46	10,844.64
609.14	1,094.90	469.50	504.25	6,537.62	8,077.25	1,539.63
169.47	416.15	172.98	190.65	2,359.20	2,973.50	614.30
2,228.25	7,950.87	2,305.34	3,837.01	32,346.13	39,397.91	7,051.78
1,535.76	5,800.04	1,816.96	2,760.34	25,310.58	29,477.28	4,166.70
15,661.05	69,445.00	20,362.21	33,168.87	287,842.46	313,324.08	25,481.62
1,862.56	5,738.55	2,054.27	2,666.84	26,417.82	30,668.40	4,250.58
163,821.92	790,233.10	221,382.56	380,002.88	3,083,844.79	3,199,458.03	115,613.24
2,416.48	8,496.04	2,475.72	4,078.54	34,598.10	45,227.72	10,629.62
1,258.56	3,163.39	1,310.79	1,440.92	17,312.08	20,417.67	3,105.59
1,414.60	3,703.53	1,499.78	1,683.91	18,989.61	23,168.90	4,179.29
406.83	928.53	343.61	432.18	4,717.85	6,567.20	1,849.35
617.60	1,155.14	484.11	530.79	6,497.06	8,501.06	2,004.00
672.55	1,468.01	661.36	667.87	8,281.60	10,286.88	2,005.28
3,735.52	16,223.82	4,812.54	7,746.34	67,149.76	76,356.80	9,207.04
253.69	613.76	259.86	280.00	3,430.75	4,196.59	765.84

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To October 31, 1946			Cost of power purchased	Operating maintenance and administrative expenses*	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Holstein.....	39.00	7,064.30	23.2	135.19	232.51	286.60
Humberstone.....	24.00	98,390.51	649.4	3,784.19	2,731.31	4,027.86
Huntsville.....	28.00	239,099.56	1,426.6	8,313.10	6,553.28	9,711.67
Ingersoll.....	25.00	567,102.60	3,723.1	21,695.28	16,624.95	23,180.85
Iroquois.....	25.50	50,127.01	364.9	2,126.35	1,657.41	2,035.80
Jarvis.....	34.50	45,652.39	197.0	1,147.96	1,335.58	1,867.13
Kemptville.....	32.00	88,094.98	465.2	2,710.82	3,301.73	3,620.87
Kincardine.....	35.50	173,105.99	907.5	5,288.20	5,335.90	7,030.92
Kingston.....	22.50	2,414,539.82	18,962.6	110,499.02	67,228.58	98,301.03
Kingsville.....	32.50	163,874.37	793.0	4,620.98	4,616.24	6,561.46
Kirkfield.....	39.00	8,913.79	26.4	153.84	191.56	365.63
Kitchener.....	22.50	4,269,866.76	30,011.5	174,883.26	110,541.74	174,825.04
Lakefield.....	25.00	79,627.22	527.1	3,071.52	2,475.30	3,260.53
Lambeth.....	32.00	33,087.13	177.9	1,036.66	1,049.61	1,352.43
Lanark.....	39.00	39,607.61	131.0	763.36	1,155.73	1,630.11
Lancaster.....	39.00	15,627.98	61.7	359.54	614.77	637.13
LaSalle.....	31.00	75,073.96	380.9	2,219.58	2,327.07	3,205.97
Leamington.....	32.00	484,952.89	2,322.8	13,535.44	13,642.13	19,149.55
Lindsay.....	26.50	634,777.82	3,856.9	22,474.96	21,863.12	25,919.51
Listowel.....	30.00	306,818.87	1,684.7	9,817.10	9,965.28	12,535.61
London.....	22.50	6,706,559.74	47,121.9	274,589.12	177,323.39	274,847.32
London Twp.....	27.00	107,328.26	657.7	3,832.55	3,276.72	4,383.73
Long Branch.....	24.50	279,642.47	1,908.1	11,118.90	8,141.93	11,414.26
Lucan.....	31.00	44,083.25	256.8	1,496.43	1,485.93	1,795.24
Lucknow.....	39.00	105,856.16	497.0	2,896.12	3,130.89	4,285.70
Lynden.....	31.00	23,707.11	135.5	789.59	829.82	954.22
Madoc.....	39.00	48,715.23	279.3	1,627.54	2,453.67	1,978.87
Markdale.....	31.50	36,187.36	232.5	1,354.83	1,354.32	1,452.90
Markham.....	28.00	80,027.67	477.0	2,779.58	2,355.30	3,235.57
Marmora.....	33.00	31,520.28	170.0	990.63	1,347.93	1,280.75
Martintown.....	36.00	9,552.68	58.4	340.31	439.23	381.17
Maxville.....	39.00	28,414.11	138.9	809.40	896.40	1,218.75
Meaford.....	32.50	164,581.53	942.0	5,489.23	5,140.49	6,685.88
Merlin.....	34.00	26,008.20	127.1	740.64	969.56	1,052.53
Merritton.....	20.00	1,214,643.43	10,071.8	58,690.47	31,488.20	49,634.33
Midland.....	26.00	599,356.60	4,368.8	25,457.91	16,540.01	23,985.19
Mildmay.....	35.50	35,836.80	192.8	1,123.49	1,133.74	1,441.19
Millbrook.....	31.50	28,982.87	146.1	851.36	811.99	1,219.51
Milton.....	28.00	268,225.53	1,728.1	10,070.00	8,678.76	10,898.94
Milverton.....	30.50	99,833.43	518.3	3,020.24	3,087.09	4,085.30

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1946

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
107.62	127.04	73.33	56.49	905.80	905.80	.....
864.75	3,347.40	1,033.31	1,581.16	14,207.66	15,586.60	1,378.94
2,799.58	7,315.31	2,498.89	3,473.49	33,718.34	39,943.41	6,225.07
4,830.78	19,101.63	5,955.78	9,065.02	82,324.25	93,077.28	10,753.03
494.06	1,848.71	526.18	888.46	7,800.05	9,305.60	1,505.55
488.79	1,064.12	477.43	479.66	5,901.35	6,796.50	895.15
1,113.62	2,428.65	925.51	1,132.67	12,968.53	14,885.60	1,917.07
2,232.76	4,718.17	1,827.52	2,209.59	24,223.88	32,216.54	7,992.66
21,865.77	95,112.17	25,338.50	46,170.26	372,174.81	426,659.04	54,484.23
1,581.44	4,237.68	1,691.20	1,930.80	21,378.20	25,773.60	4,395.40
141.59	148.40	93.51	64.28	1,030.25	1,030.25	.....
34,179.66	152,888.22	44,837.52	73,072.19	619,083.25	675,258.55	56,175.30
858.00	2,690.11	836.06	1,283.39	11,908.13	13,176.65	1,268.52
320.41	931.49	347.66	433.15	4,605.11	5,693.88	1,088.77
609.60	724.95	416.47	318.96	4,981.26	5,110.01	128.75
224.33	331.56	163.09	150.23	2,180.19	2,404.69	224.50
780.74	2,045.21	827.16	927.42	10,478.31	11,808.42	1,330.11
4,612.71	12,347.51	4,940.02	5,655.57	62,571.79	74,328.28	11,756.49
7,320.73	19,851.65	6,666.54	9,390.80	94,705.71	102,208.51	7,502.80
2,861.66	8,854.97	3,225.25	4,101.92	43,157.95	50,540.75	7,382.80
54,006.16	240,166.02	70,420.03	114,732.69	976,619.35	1,060,241.80	83,622.45
959.63	3,402.95	1,127.38	1,601.37	15,381.59	17,758.16	2,376.57
2,327.50	9,746.30	2,933.07	4,645.85	41,036.11	46,747.43	5,711.32
407.34	1,340.09	463.11	625.26	6,362.88	7,960.05	1,597.17
1,427.56	2,621.30	1,108.67	1,210.10	14,260.14	19,382.38	5,122.24
220.78	706.00	247.38	329.92	3,417.87	4,199.47	781.60
585.39	1,452.49	511.86	680.04	7,929.78	10,892.07	2,962.29
400.66	1,183.70	377.98	566.09	5,558.30	7,324.29	1,765.99
690.30	2,465.31	833.28	1,161.40	11,197.94	13,355.53	2,157.59
393.51	899.21	331.13	413.92	4,829.24	5,610.58	781.34
107.54	300.74	99.20	142.19	1,526.00	2,100.90	574.90
401.89	740.93	312.87	338.19	4,042.05	5,416.80	1,374.75
2,008.84	4,853.48	1,734.41	2,293.59	23,618.74	30,614.99	6,996.25
257.20	676.25	270.93	309.46	3,657.65	4,320.25	662.60
8,778.46	50,357.72	12,726.54	24,522.88	187,152.84	201,436.49	14,283.65
5,916.24	21,930.16	6,253.57	10,637.18	89,445.90	113,589.44	24,143.54
446.14	1,005.56	373.40	469.43	5,054.09	6,844.42	1,790.33
392.59	784.04	313.22	355.73	4,016.98	4,602.43	585.45
2,336.34	8,838.20	2,816.71	4,207.59	39,431.36	48,387.24	8,955.88
961.99	2,754.27	1,049.53	1,261.96	13,696.46	15,806.87	2,110.41

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To October 31, 1946			Cost of power purchased	Operating maintenance and administrative expenses*	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Mimico.....	23.00	489,537.78	3 578.5	20,852.66	14,094.69	20,016.47
Mitchell.....	28.00	149,557.06	904.3	5,269.54	4,838.87	6,104.02
Moorefield.....	39.00	33,158.68	116.9	681.20	1,314.72	1,363.63
Morrisburg.....	28.00	69,015.93	452.9	2,639.14	2,114.95	2,802.58
Mount Brydges.....	31.50	24,130.57	139.2	811.15	951.37	985.77
Mount Forest.....	38.50	158,325.20	710.7	4,141.40	4,830.75	6,194.68
Napanee.....	25.50	255,305.39	1,783.9	10,395.16	9,490.63	10,399.67
Neustadt.....	36.00	8,149.71	47.6	277.38	454.26	327.01
Newbury.....	39.00	11 149.68	49.7	289.61	497.84	453.94
Newcastle.....	29.50	47,349.98	286.2	1,667.75	1,359.73	1,936.00
New Hamburg.....	27.50	147,975.80	780.6	4,548.72	3,994.05	5,375.97
Newmarket.....	27.25	390,319.67	2,393.2	13,945.67	11,074.61	15,832.43
New Toronto.....	24.50	1,523,847.84	9,607.9	55,987.23	44,574.21	62,472.61
Niagara Falls.....	17.75	1,242,942.22	12,709.6	74,061.48	32,511.94	50,799.74
Niagara-on-the-Lake.....	22.50	127,077.05	1,051.9	6,129.64	3,638.83	5,169.85
North York Twp.....	24.00	1,887,319.91	12,675.6	73,863.36	51,285.80	76,422.11
Norwich.....	29.00	97,756.75	574.5	3,347.73	3,118.71	3,981.64
Norwood.....	31.50	37,121.18	244.0	1,421.84	1,264.49	1,518.01
Oil Springs.....	35.00	38,924.86	201.5	1,174.18	1,443.40	1,577.18
Omeme.....	30.00	46,391.20	269.3	1,569.27	1,375.56	1,877.94
Orangeville.....	37.50	192,235.47	1,006.3	5,863.92	6,316.56	7,296.19
Orono.....	37.00	23,533.45	124.9	727.82	817.93	954.64
Oshawa.....	26.00	2,911,495.13	19,526.5	113,784.98	94,363.39	118,627.07
Ottawa (11,000 volt).....	.....	964.69	19,825.2	218,076.80	20,047.04	39.77
Ottawa.....	21.50	2,360,827.11	21,269.1	123,939.47	64,961.64	95,701.16
Otterville.....	33.00	28,825.74	145.9	850.19	992.40	1,179.28
Owen Sound.....	27.00	1,220,935.05	7,998.6	46,609.51	30,875.32	49,238.77
Paisley.....	39.00	40,282.83	195.4	1,138.64	1,362.32	1,633.21
Palmerston.....	33.00	142,616.17	710.9	4,142.56	4,956.18	5,824.86
Paris.....	23.00	328,034.32	2,263.6	13,190.47	9,438.30	13,446.00
Parkhill.....	39.00	73,789.70	316.7	1,845.48	2,814.72	3,018.07
Penetanguishene.....	28.50	201,719.11	1,331.0	7,756.01	5,641.28	8,122.18
Perth.....	25.00	310,230.11	2,115.4	12,326.88	8,889.40	12,645.92
Peterborough.....	22.00	2,540,966.49	19,729.4	114,967.32	69,551.88	103,696.52
Petrolia.....	32.50	239,970.39	1,300.7	7,579.45	7,939.37	9,744.29
Picton.....	31.50	302,731.77	1,753.8	10,219.76	9,516.22	12,325.59
Plattsville.....	36.00	45,973.25	184.6	1,075.71	1,420.71	1,663.02
Point Edward.....	32.00	270,696.53	1,650.8	9,619.56	13,179.63	10,973.86
Port Colborne.....	24.00	342,972.87	2,263.7	13,191.05	9,073.71	14,042.82
Port Credit.....	25.50	179,571.35	1,196.5	6,972.25	5,331.08	7,327.72

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1946

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,850.66	18,124.34	5,139.64	8,712.95	73,365.51	82,304.49	8,938.98
1,332.35	4,685.39	1,571.86	2,201.79	21,600.24	25,320.17	3,719.93
376.33	650.38	348.59	284.63	4,450.22	4,558.47	108.25
749.20	2,327.76	724.68	1,102.72	10,255.59	12,680.51	2,424.92
224.33	724.44	253.51	338.93	3,611.64	4,384.02	772.38
2,076.21	3,740.35	1,603.71	1,730.42	20,856.68	27,361.61	6,504.93
2,620.18	9,110.74	2,680.22	4,343.45	40,353.15	45,489.03	5,135.88
96.85	244.95	85.19	115.90	1,369.74	1,713.60	343.86
114.98	267.06	116.06	121.01	1,618.48	1,938.64	320.16
548.14	1,486.09	497.27	696.84	6,798.14	8,444.13	1,645.99
1,198.16	4,051.00	1,383.24	1,900.61	18,650.53	21,466.73	2,816.20
3,298.08	12,312.42	4,064.71	5,826.98	54,700.94	65,215.83	10,514.89
13,472.01	49,703.72	15,999.05	23,393.37	218,815.46	235,394.26	16,578.80
6,930.64	62,147.34	13,033.97	30,945.41	208,539.70	225,594.95	17,055.25
936.70	5,205.42	1,333.64	2,561.17	19,852.91	23,667.00	3,814.09
14,770.09	64,527.87	19,634.60	30,862.63	269,641.20	304,213.20	34,572.00
899.17	2,990.30	1,026.94	1,398.80	13,965.69	16,660.72	2,695.03
402.40	1,256.81	389.77	594.09	5,659.23	7,686.29	2,027.06
379.48	1,068.41	409.02	490.61	5,561.06	7,051.35	1,490.29
547.77	1,401.57	484.75	655.69	6,601.17	8,080.25	1,479.08
2,235.88	5,195.47	1,900.15	2,450.15	26,358.02	37,736.27	11,378.25
296.60	655.71	247.23	304.11	3,395.82	4,619.75	1,223.93
31,017.01	99,540.72	30,567.78	47,543.24	440,357.71	507,688.33	67,330.62
19.30	4.82	10.16	.....	238,197.89	238,197.89	.....
17,737.04	105,482.64	24,762.05	51,786.14	380,797.86	457,285.80	76,487.94
288.34	769.41	302.91	355.24	4,027.29	4,814.71	787.42
13,303.80	40,651.06	12,750.88	19,475.04	173,954.30	215,962.23	42,007.93
534.15	1,026.33	421.61	475.76	5,640.50	7,621.60	1,981.10
1,403.15	3,783.65	1,498.29	1,730.90	19,877.79	23,459.73	3,581.94
2,687.39	11,548.48	3,444.38	5,511.43	48,243.59	52,062.41	3,818.82
793.69	1,699.94	775.66	771.10	10,176.46	12,351.34	2,174.88
2,184.84	6,754.87	2,106.55	3,240.73	29,325.00	37,932.56	8,607.56
3,256.67	10,779.55	3,257.03	5,150.59	46,004.86	52,883.94	6,879.08
23,325.18	99,051.91	26,665.98	48,037.27	389,221.52	434,047.17	44,825.65
2,280.16	6,851.11	2,521.37	3,166.95	33,748.80	42,354.08	8,605.28
3,610.61	9,051.42	3,179.73	4,270.16	43,633.17	55,246.03	11,612.86
429.15	986.59	428.32	449.47	5,554.03	6,645.60	1,091.57
2,385.91	8,561.86	2,843.42	4,019.38	43,544.86	52,826.68	9,281.82
3,014.38	11,668.49	3,601.95	5,511.67	49,080.73	54,328.40	5,247.67
1,525.80	6,134.64	1,885.77	2,913.25	26,264.01	30,509.69	4,245.68

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To October 31, 1946			Cost of power purchased	Operating maintenance and administrative expenses*	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Port Dalhousie.....	24.50	164,266.40	1,169.3	6,813.75	5,283.62	6,690.05
Port Dover.....	31.00	129,777.69	683.3	3,981.73	4,716.52	5,215.09
Port Elgin.....	34.00	139,523.00	652.7	3,803.42	4,055.80	5,650.16
Port Hope.....	26.00	453,974.88	3,169.6	18,469.92	17,930.46	18,530.15
Port McNicoll.....	32.00	19,334.17	129.4	754.04	652.66	773.55
Port Perry.....	39.00	78,581.47	410.5	2,392.07	3,103.43	3,153.89
Port Rowan.....	34.50	32,044.84	145.1	845.53	1,349.22	1,317.95
Port Stanley.....	32.50	165,398.46	830.6	4,840.08	5,407.57	6,531.72
Prescott.....	25.00	239,272.32	1,602.2	9,336.35	6,366.50	9,737.15
Preston.....	23.00	643,693.83	4,540.5	26,458.44	17,907.78	26,343.47
Priceville.....	39.00	2,871.56	11.7	68.18	192.16	100.63
Princeton.....	37.50	41,220.24	181.2	1,055.89	1,476.41	1,687.39
Queenston.....	23.00	19,421.17	161.1	938.76	663.72	792.99
Renfrew.....	28.00	124,953.80	853.9	4,975.85	5,418.56	5,117.04
Richmond.....	39.00	22,654.96	99.9	582.14	713.15	923.37
Richmond Hill.....	24.00	111,210.91	689.3	4,016.69	2,893.12	4,527.18
Ridgetown.....	30.50	131,950.95	710.0	4,137.32	4,500.77	5,323.10
Ripley.....	39.00	40,185.82	154.3	899.14	1,358.97	1,647.09
Riverside.....	30.00	318,910.84	1,598.7	9,315.96	8,892.03	12,707.87
Rockwood.....	31.00	34,620.64	187.0	1,089.69	1,051.95	1,418.17
Rodney.....	39.00	42,857.08	186.3	1,085.61	1,754.22	1,691.17
Rosseau.....	39.00	21,564.83	44.6	259.89	(158.62)	886.14
Russell.....	39.00	23,738.20	107.8	628.17	808.77	967.26
St. Catharines.....	19.50	3,394,829.39	28,088.8	163,679.28	90,532.42	139,029.55
St. Clair Beach.....	35.00	28,606.33	131.3	765.11	1,011.99	1,139.81
St. George.....	35.00	44,728.91	231.6	1,349.58	1,712.35	1,815.68
St. Jacobs.....	27.50	59,903.54	379.7	2,212.59	1,776.10	2,428.37
St. Marys.....	30.00	348,369.48	2,115.6	12,328.05	13,711.42	14,212.26
St. Thomas.....	23.50	1,343,222.14	9,264.6	53,986.75	42,868.65	55,099.79
Sarnia.....	28.00	1,319,334.27	7,802.2	45,465.04	39,132.10	53,864.10
Scarborough Twp.....	25.00	1,033,454.16	6,627.0	38,616.91	27,102.83	42,252.52
Seaforth.....	29.00	202,208.49	1,191.2	6,941.37	6,397.45	8,245.90
Shelburne.....	36.50	67,329.22	352.1	2,051.76	2,343.86	2,538.15
Simcoe.....	25.00	486,607.40	3,157.4	18,398.83	14,197.59	19,893.30
Smiths Falls.....	23.50	480,891.31	3,659.9	21,327.00	13,067.18	19,549.82
Smithville.....	29.50	50,749.74	277.0	1,614.14	1,348.37	2,002.30
Southampton.....	32.50	138,647.84	666.7	3,885.00	3,755.66	5,601.71
Springfield.....	39.00	20,181.65	96.8	564.07	793.83	824.45
Stamford Twp.....	17.75	375,930.68	3,860.3	22,494.77	10,455.09	15,365.53
Stayner.....	32.50	59,141.47	356.8	2,079.15	1,915.48	2,347.79

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1946

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,367.91	5,935.51	1,722.34	2,847.02	24,966.16	28,648.46	3,682.30
1,234.43	3,588.71	1,340.04	1,663.70	18,412.82	21,181.24	2,768.42
1,883.53	3,434.56	1,460.60	1,589.20	18,698.87	22,193.23	3,494.36
4,662.56	16,141.23	4,765.88	7,717.36	72,782.84	82,409.38	9,626.54
206.87	658.28	201.88	315.06	2,932.22	4,139.19	1,206.97
1,001.20	2,128.14	822.05	999.49	11,601.29	16,007.57	4,406.28
336.51	780.19	336.76	353.29	4,612.87	5,005.68	392.81
1,581.81	4,388.46	1,683.44	2,022.35	22,410.73	26,995.60	4,584.87
2,552.78	8,184.18	2,512.25	3,901.05	34,788.16	40,054.37	5,266.21
5,175.31	23,127.95	6,758.82	11,055.24	94,716.53	104,431.29	9,714.76
33.47	63.02	26.03	28.49	455.00	455.00	.....
440.63	968.92	434.03	441.19	5,622.08	6,794.06	1,171.98
142.85	802.28	203.82	392.25	3,152.17	3,705.87	553.70
1,303.76	4,351.39	1,309.03	2,079.08	20,396.55	23,910.12	3,513.57
314.64	527.52	238.10	243.24	3,055.68	3,895.47	839.79
931.77	3,550.22	1,157.99	1,678.31	15,398.66	16,542.60	1,143.94
1,236.71	3,734.40	1,373.05	1,728.71	18,576.64	21,653.47	3,076.83
589.63	832.12	421.29	375.69	5,372.55	6,017.08	644.53
2,997.43	8,511.37	3,275.55	3,892.52	41,807.69	47,961.00	6,153.31
334.88	983.44	363.68	455.31	4,786.50	5,798.32	1,011.82
434.48	995.36	433.52	453.60	5,940.76	7,263.79	1,323.03
369.32	266.43	226.49	108.59	1,741.06	1,741.06	.....
323.43	568.23	248.88	262.47	3,282.27	4,202.61	920.34
24,613.58	140,413.95	35,573.08	68,390.78	525,451.08	547,731.74	22,280.66
282.43	704.99	294.46	319.69	3,879.10	4,594.36	715.26
442.45	1,222.57	469.99	563.90	6,448.72	8,106.57	1,657.85
520.67	1,958.51	629.22	924.50	8,600.96	10,440.60	1,839.64
3,050.91	10,991.48	3,659.35	5,151.07	52,802.40	63,468.50	10,666.10
10,987.96	47,342.82	14,104.86	22,557.51	201,833.32	217,717.70	15,884.38
11,875.66	40,558.02	13,859.47	18,996.84	185,757.55	218,461.13	32,703.58
8,579.40	34,006.21	10,853.18	16,135.46	145,275.59	165,673.64	20,398.05
1,833.09	6,183.72	2,125.33	2,900.34	28,826.52	34,545.04	5,718.52
773.90	1,824.79	660.41	857.30	9,335.57	12,851.95	3,516.38
4,161.82	16,205.31	5,109.42	7,687.66	70,278.61	78,934.16	8,655.55
4,517.53	18,483.15	5,047.02	8,911.15	73,080.55	86,008.06	12,927.51
477.02	1,437.62	515.40	674.44	6,720.41	8,172.24	1,451.83
1,846.57	3,502.27	1,451.19	1,623.29	18,419.11	21,669.09	3,249.98
207.01	511.38	212.10	235.69	2,877.15	3,775.57	898.42
2,081.21	18,868.72	3,942.09	9,399.08	63,808.33	68,519.43	4,711.10
674.97	1,843.06	611.70	868.74	8,603.41	11,597.09	2,993.68

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To October 31, 1946			Cost of power purchased	Operating maintenance and administrative expenses*	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Stirling.....	23.00	53,432.86	435.0	2,534.84	1,647.20	2,171.18
Stouffville.....	31.00	92,532.41	501.1	2,920.01	2,892.04	3,701.54
Stratford.....	25.00	1,338,722.04	8,682.4	50,594.15	39,561.27	54,836.86
Strathroy.....	26.50	287,633.36	1,786.6	10,410.89	8,068.45	11,741.56
Streetsville.....	29.00	40,588.98	257.9	1,502.84	1,482.66	1,652.05
Sunderland.....	39.00	25,470.16	119.1	694.02	1,033.81	1,036.30
Sutton.....	38.00	96,696.76	430.4	2,508.03	3,595.70	3,929.82
Swansea.....	25.00	488,978.42	3,524.6	20,538.58	24,793.14	20,011.86
Tara.....	36.50	35,210.33	176.0	1,025.59	1,052.79	1,427.24
Tavistock.....	29.00	134,714.70	752.0	4,382.06	4,183.17	5,513.56
Tecumseh.....	32.00	112,701.26	535.3	3,119.30	3,376.77	4,493.65
Teeswater.....	39.00	46,564.22	214.3	1,248.77	1,474.09	1,885.91
Thamesford.....	33.00	57,964.89	316.8	1,846.06	1,946.27	2,359.64
Thamesville.....	31.50	53,533.15	290.6	1,693.39	2,011.93	2,161.41
Thedford.....	39.00	38,757.79	143.9	838.54	1,679.84	1,592.00
Thornbury.....	50.00	33,918.49	135.0	786.67	1,276.29	1,305.52
Thorndale.....	39.00	25,999.39	116.0	675.96	992.55	1,065.63
Thornton.....	39.00	10,558.51	45.9	267.47	342.91	434.96
Thorold.....	22.50	444,201.88	3,558.8	20,737.87	13,949.80	18,038.70
Tilbury.....	30.00	191,788.18	1,034.2	6,026.50	6,505.43	7,674.01
Tillsonburg.....	26.50	316,359.71	1,975.8	11,513.40	9,682.80	12,915.51
Toronto.....	21.50	56,120,438.61	405,804.2	2,364,705.56	1,372,555.65	2,300,215.85
Toronto Twp.....	26.00	734,508.44	4,820.2	28,088.31	21,817.35	30,021.79
Tottenham.....	39.00	42,566.73	148.6	865.92	1,499.11	1,765.77
Trafalgar.....	27.50	138,486.84	816.7	4,759.09	4,749.26	5,678.11
Trenton.....	21.00	698,503.30	5,957.2	34,713.84	18,803.96	28,408.97
Tweed.....	39.00	83,809.41	397.3	2,315.15	3,560.17	3,414.56
Uxbridge.....	39.00	94,754.43	487.1	2,838.43	3,499.83	3,807.49
Victoria Harbour.....	33.50	17,299.47	96.7	563.49	767.38	650.09
Walkerton.....	28.00	190,047.19	1,312.8	7,649.96	5,213.19	7,634.19
Wallaceburg.....	30.00	949,785.07	5,331.7	31,068.93	29,440.39	38,182.67
Wardsville.....	39.00	14,868.63	62.6	364.78	646.97	605.57
Warkworth.....	34.00	23,895.75	100.3	584.47	907.41	868.91
Waterdown.....	26.00	54,214.27	350.8	2,044.18	1,838.52	2,198.29
Waterford.....	27.00	87,386.92	542.3	3,160.10	2,606.49	3,559.09

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1946

costs and fixed charges			Revenue received in excess of cost of power sold to private com- panies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
462.48	2,177.84	560.66	1,059.14	8,495.06	10,004.04	1,508.98
834.96	2,607.27	952.44	1,220.08	12,688.18	15,533.58	2,845.40
11,333.99	44,713.25	14,068.10	21,139.96	193,967.66	217,059.98	23,092.32
2,547.98	9,188.81	3,021.19	4,350.02	40,628.86	47,345.80	6,716.94
357.15	1,329.76	426.31	627.94	6,122.83	7,480.08	1,357.25
343.91	626.12	266.63	289.99	3,710.80	4,646.24	935.44
990.64	2,292.99	1,010.06	1,047.94	13,279.30	16,355.20	3,075.90
3,653.70	17,835.47	5,133.98	8,581.72	83,385.01	88,115.61	4,730.60
459.66	930.81	368.45	428.53	4,836.01	6,424.31	1,588.30
1,263.14	3,950.39	1,416.06	1,830.97	18,877.41	21,807.76	2,930.35
1,092.41	2,864.70	1,159.09	1,303.36	14,802.56	17,128.25	2,325.69
633.92	1,153.61	487.72	521.78	6,362.24	8,358.80	1,996.56
556.23	1,662.03	609.03	771.35	8,207.91	10,453.06	2,245.15
499.07	1,528.87	557.00	707.55	7,744.12	9,152.34	1,408.22
435.21	791.50	407.38	350.37	5,394.10	5,612.14	218.04
455.81	720.05	336.97	328.70	4,552.61	6,751.24	2,198.63
275.29	618.23	273.28	282.44	3,618.50	4,523.06	904.56
150.51	247.38	112.22	111.76	1,443.69	1,790.77	347.08
3,327.05	17,880.64	4,654.95	8,664.99	69,924.02	80,072.08	10,148.06
1,824.12	5,449.46	1,995.63	2,518.08	26,957.07	31,025.50	4,068.43
2,794.73	10,174.97	3,322.89	4,810.69	45,593.61	52,359.35	6,765.74
417,997.53	2,052,593.53	589,225.39	988,054.58	8,109,238.93	8,724,789.36	615,550.43
6,313.36	24,748.91	7,713.90	11,736.26	106,967.36	125,323.88	18,356.52
654.96	812.89	451.59	361.81	5,688.43	5,796.39	107.96
1,280.05	4,219.14	1,454.64	1,988.52	20,151.77	22,642.24	2,490.47
5,668.34	29,711.41	7,327.94	14,504.63	110,129.83	125,102.11	14,972.28
1,122.53	2,099.45	880.70	967.35	12,425.21	15,493.12	3,067.91
1,218.21	2,529.00	991.34	1,185.99	13,698.31	18,996.93	5,298.62
188.64	498.67	168.79	235.45	2,601.61	3,240.00	638.39
1,976.67	6,662.73	1,983.87	3,196.41	27,924.20	36,757.72	8,833.52
8,729.27	27,893.30	9,878.12	12,981.66	132,211.02	159,949.75	27,738.73
157.21	338.43	154.88	152.42	2,115.42	2,440.12	324.70
285.75	536.58	223.58	244.21	3,162.49	3,409.92	247.43
464.19	1,801.92	565.02	854.13	8,057.99	9,119.70	1,061.71
771.96	2,807.20	917.68	1,320.40	12,502.12	14,642.58	2,140.46

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount billed by the Commission against
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Com- mission during year	Share of capital cost of system	Average horse- power supplied in year after correc- tion for power factor	Share of operating		
	To October 31, 1946			Cost of power pur- chased	Operating main- tenance and adminis- trative expenses*	Interest
	\$ c	\$ c.		\$ c.	\$ c.	\$ c.
Waterloo.....	23. 00	1,032,027. 24	7,183. 7	41,860. 92	27,048. 31	42,244. 18
Watford.....	35. 50	90,837. 85	456. 0	2,657. 21	3,215. 22	3,695. 63
Waubauskene.....	30. 00	24,974. 02	166. 2	968. 48	792. 15	1,009. 37
Welland.....	19. 50	1,498,993. 87	11,970. 6	69,755. 18	38,044. 22	61,562. 27
Wellesley.....	32. 00	31,524. 16	161. 3	939. 93	1,009. 38	1,287. 60
Wellington.....	31. 00	58,401. 11	345. 2	2,011. 55	1,754. 51	2,368. 14
West Lorne.....	35. 50	74,751. 45	383. 4	2,234. 15	2,989. 17	2,911. 37
Weston.....	22. 50	796,337. 47	5,634. 9	32,835. 74	20,116. 78	32,276. 83
Westport.....	39. 00	40,838. 65	142. 8	832. 13	1,182. 39	1,678. 75
Wheatley.....	39. 00	71,711. 89	265. 9	1,549. 45	2,285. 46	2,861. 57
Whitby.....	25. 50	271,027. 97	1,863. 1	10,856. 68	8,569. 62	11,046. 02
Warton.....	29. 00	110,630. 91	479. 7	2,795. 31	3,189. 34	4,490. 55
Williamsburg.....	28. 50	20,065. 98	134. 8	785. 51	747. 45	814. 99
Winchester.....	28. 50	79,937. 49	491. 7	2,865. 24	2,561. 62	3,254. 55
Windermere.....	39. 00	16,233. 79	62. 6	364. 78	815. 37	665. 39
Windsor.....	25. 00	9,234,087. 18	53,300. 8	310,594. 86	240,423. 73	369,695. 47
Wingham.....	37. 50	195,548. 56	993. 2	5,787. 59	5,656. 04	7,880. 47
Woodbridge.....	27. 50	146,534. 48	899. 6	5,242. 16	4,075. 26	5,938. 46
Woodstock.....	24. 50	1,362,814. 48	9,410. 3	54,835. 78	39,150. 69	55,581. 80
Woodville.....	39. 00	22,505. 61	106. 3	619. 43	890. 40	915. 74
Wyoming.....	39. 00	27,590. 93	128. 0	745. 88	960. 41	1,122. 07
York Twp.....	23. 00	3,419,667. 10	24,942. 2	145,343. 39	87,970. 71	138,159. 25
Zurich.....	39. 00	40,927. 52	167. 8	977. 81	1,462. 00	1,674. 84
Ontario Reformatory.....		49,764. 57	329. 4	1,919. 48	1,576. 74	2,022. 22
Toronto Transportation Comm.....		87,496. 05	629. 1	3,665. 90	2,464. 95	3,439. 51
Totals—Municipalities.....		182,327,140. 56	1,291,296. 3	7,627,203. 71	4,912,537. 54	7,431,060. 29
Totals—Rural power district.....		23,270,815. 69	135,698. 2	813,453. 32	659,428. 45	943,475. 07
Totals—Companies.....		61,823,418. 86	477,897. 4	2,784,807. 57	1,957,673. 43	2,516,337. 35
Totals—Local distribution sys.....		635,805. 07	2,087. 3	12,163. 15	34,426. 46	25,478. 47
Non-operating capital.....		268,057,180. 18 9,646,234. 57				
Grand Totals.....		277,703,414. 75	1,906,979. 2	11,237,627. 75	7,564,065. 88	10,916,351. 18

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1946

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,330.98	36,623.26	10,837.52	17,490.92	149,454.25	165,224.77	15,770.52
900.01	2,419.67	954.58	1,110.27	12,732.05	16,188.89	3,456.84
268.53	850.64	260.78	404.66	3,745.29	4,985.25	1,239.96
11,609.04	60,251.22	15,728.36	29,146.09	227,804.20	233,426.05	5,621.85
312.33	850.39	331.29	392.73	4,338.19	5,160.52	822.33
686.97	1,787.67	613.38	840.50	8,381.72	10,701.73	2,320.01
692.42	2,014.79	750.58	933.50	10,658.98	13,611.90	2,952.92
5,932.37	28,507.66	8,283.70	13,719.89	114,233.19	126,785.26	12,552.07
617.78	788.59	429.37	347.69	5,181.32	5,568.90	387.58
767.58	1,454.67	733.67	647.41	9,004.99	10,371.11	1,366.12
2,824.06	9,443.99	2,845.31	4,536.28	41,049.40	47,508.22	6,458.82
1,546.08	2,549.65	1,158.64	1,167.98	14,561.59	18,708.96	4,147.37
213.29	690.08	210.58	328.21	3,133.69	3,841.82	708.13
908.46	2,538.42	836.82	1,197.19	11,767.92	14,013.94	2,246.02
237.69	338.87	170.11	152.42	2,439.79	2,439.79	.....
79,665.19	277,854.44	94,978.07	129,777.12	1,243,434.64	1,332,519.36	89,084.72
2,534.30	5,185.93	2,047.85	2,418.25	26,673.93	37,243.45	10,569.52
1,238.11	4,633.67	1,526.77	2,190.35	20,464.08	24,738.54	4,274.46
11,151.61	48,084.32	14,310.48	22,912.25	200,202.43	230,551.96	30,349.53
302.40	558.26	235.58	258.82	3,262.99	4,144.76	881.77
284.03	683.78	289.99	311.66	3,774.50	4,991.69	1,217.19
24,680.58	125,821.06	35,558.78	60,729.42	496,804.35	573,671.18	76,866.83
448.01	907.08	430.25	408.56	5,491.43	6,543.57	1,052.14
421.58	1,688.79	522.47	802.03	7,349.25	8,893.61	1,544.36
698.47	3,190.04	918.66	1,531.74	12,845.79	18,419.81	5,574.02
1,500,636.26	6,463,668.03	1,907,467.54	(3,095,785.79)	26,746,787.58	29,541,675.42	2,794,887.84
226,762.18	704,335.13	240,974.77	(330,398.72)	3,258,030.20	3,258,030.20	.....
482,817.05	1,398,472.74	642,702.60	3,397,777.49	13,180,588.23	13,180,588.23	.....
9,098.26	9,057.88	6,507.50	28,407.02	125,138.74	125,138.74	.....
2,219,313.75	8,575,533.78	2,797,652.41	.....	43,310,544.75	46,105,432.59	2,794,887.84

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1946, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1945	
		Credit	Charge
		\$ c.	\$ c.
Acton.....	Jan. 1913	5,329.80	.....
Agincourt.....	Nov. 1922	722.89	.....
Ailsa Craig.....	Jan. 1916	718.24	.....
Alexandria.....	Jan. 1921	612.37	.....
Alliston.....	June 1918	3,195.17	.....
Almonte.....	Feb. 1945	.....	375.82
Alvinston.....	April 1922	133.82	.....
Amherstburg.....	Nov. 1925	5,385.92	.....
Ancaster Township.....	May 1923	1,418.29	.....
Apple Hill.....	April 1921	189.56	.....
Arkona.....	Dec. 1926	64.49	.....
Arnprior.....	Jan. 1939	4,250.96	.....
Arthur.....	Dec. 1916	181.52	.....
Athens.....	Jan. 1929	471.60	.....
Aurora.....	April 1943	5,004.29	.....
Aylmer.....	Mar. 1918	3,300.85	.....
Ayr.....	Jan. 1915	945.96	.....
Baden.....	May 1912	1,812.09	.....
Barrie.....	April 1913	22,274.35	.....
Bath.....	Nov. 1931	49.54	.....
Beachville.....	Aug. 1912	2,401.92	.....
Beamsville.....	May 1937	1,609.74	.....
Beaverton.....	Nov. 1914	2,227.73	.....
Beeton.....	Aug. 1918	93.85	.....
Belle River.....	Dec. 1922	365.05	.....
Belleville.....	April 1929	22,676.93	.....
Blenheim.....	Nov. 1915	2,579.15	.....
Bloomfield.....	April 1919	763.03	.....
Blyth.....	July 1924	740.05	.....
Bobcaygeon.....	July 1946	.....	.....
Bolton.....	Feb. 1915	626.36	.....
Bothwell.....	Sept. 1915	234.75	.....
Bowmanville.....	Oct. 1931	4,927.08	.....
Bradford.....	Oct. 1918	1,775.70	.....
Braeside.....	Jan. 1945	545.43	.....
Brampton.....	Nov. 1911	6,696.96	.....
Brantford.....	Feb. 1914	20,874.90	.....
Brantford Township.....	May 1924	2,849.92	.....
Brechin.....	Jan. 1915	374.25	.....
Bridgeport.....	Mar. 1928	476.04	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1945, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1946

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1946		Accumulated amount standing as a credit or charge on October 31, 1946	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	5,329.80	8,225.44	.....	8,225.44	.....
.....	722.89	1,090.24	.....	1,090.24	.....
.....	718.24	1,344.13	.....	1,344.13	.....
.....	612.37	3,462.53	.....	3,462.53	.....
.....	3,195.17	6,111.16	.....	6,111.16	.....
375.82	.....	1,470.27	.....	1,470.27	.....
.....	133.82	1,018.21	.....	1,018.21	.....
.....	5,385.92	6,774.10	.....	6,774.10	.....
.....	1,418.29	683.97	.....	683.97	.....
.....	189.56	559.21	.....	559.21	.....
.....	64.49	.....	.....	.....	.....
.....	4,250.96	5,522.37	.....	5,522.37	.....
.....	181.52	.....	.....	.....	.....
.....	471.60	945.43	.....	945.43	.....
.....	5,004.29	8,355.46	.....	8,355.46	.....
.....	3,300.85	5,321.43	.....	5,321.43	.....
.....	945.96	1,780.63	.....	1,780.63	.....
.....	1,812.09	1,965.38	.....	1,965.38	.....
.....	22,274.35	35,478.89	.....	35,478.89	.....
.....	49.54	.....	.....	.....	.....
.....	2,401.92	2,870.21	.....	2,870.21	.....
.....	1,609.74	2,666.19	.....	2,666.19	.....
.....	2,227.73	3,352.98	.....	3,352.98	.....
.....	93.85	246.00	.....	246.00	.....
.....	365.05	1,032.23	.....	1,032.23	.....
.....	22,676.93	27,188.78	.....	27,188.78	.....
.....	2,579.15	3,485.27	.....	3,485.27	.....
.....	763.03	1,416.87	.....	1,416.87	.....
.....	740.05	1,249.34	.....	1,249.34	.....
.....	.....	423.18	.....	423.18	.....
.....	626.36	1,469.39	.....	1,469.39	.....
.....	234.75	866.09	.....	866.09	.....
.....	4,927.08	8,290.85	.....	8,290.85	.....
.....	1,775.70	3,761.32	.....	3,761.32	.....
.....	545.43	775.14	.....	775.14	.....
.....	6,696.96	14,564.15	.....	14,564.15	.....
.....	20,874.90	38,055.35	.....	38,055.35	.....
.....	2,849.92	8,779.80	.....	8,779.80	.....
.....	374.25	454.67	.....	454.67	.....
.....	476.04	1,223.10	.....	1,223.10	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1946, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1945	
		Credit	Charge
		\$ c.	\$ c.
Brigden.....	Jan. 1918	297.27	
Brighton.....	Nov. 1929	1,817.61	
Brockville.....	April 1915	13,596.89	
Brussels.....	July 1924	761.62	
Burford.....	June 1915	882.65	
Burgessville.....	Nov. 1916	63.58	
Burlington.....	Jan. 1945	1,963.22	
Caledonia.....	Oct. 1912	977.52	
Campbellville.....	Jan. 1925	44.53	
Cannington.....	Nov. 1914	1,332.69	
Cardinal.....	July 1930	1,329.88	
Carleton Place.....	May 1919	7,895.69	
Cayuga.....	Nov. 1924	574.93	
Chatham.....	Feb. 1915	19,605.88	
Chatsworth.....	Dec. 1915	640.80	
Chesley.....	July 1916	3,588.34	
Chesterville.....	April 1914	954.09	
Chippawa.....	Sept. 1919	975.35	
Clifford.....	May 1924	101.93	
Clinton.....	Mar. 1914	2,434.13	
Cobden.....	Nov. 1925	942.86	
Cobourg.....	Jan. 1932	7,345.09	
Colborne.....	Jan. 1933	1,090.28	
Coldwater.....	Mar. 1913	1,492.13	
Collingwood.....	Mar. 1913	14,836.02	
Comber.....	May 1915	945.67	
Cookstown.....	May 1918	652.27	
Cottam.....	Nov. 1926	528.13	
Courtright.....	Dec. 1923	50.68	
Creemore.....	Nov. 1914	1,281.18	
Dashwood.....	Sept. 1917	479.16	
Delaware.....	Mar. 1915	268.90	
Delhi.....	May 1938	2,489.98	
Deseronto.....	Jan. 1931	1,556.12	
Dorchester.....	Dec. 1914	696.59	
Drayton.....	Mar. 1918	153.43	
Dresden.....	April 1915	2,259.81	
Drumbo.....	Dec. 1914	299.12	
Dublin.....	Oct. 1917	249.79	
Dundalk.....	Dec. 1915	1,206.42	

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1945, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1946

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1946		Accumulated amount standing as a credit or charge on October 31, 1946	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	297.27	861.65	.....	861.65	.....
.....	1,817.61	3,006.63	.....	3,006.63	.....
.....	13,596.89	19,216.07	.....	19,216.07	.....
.....	761.62	2,030.87	.....	2,030.87	.....
.....	882.65	1,383.27	.....	1,383.27	.....
.....	63.58	697.91	.....	697.91	.....
.....	1,963.22	4,233.99	.....	4,233.99	.....
.....	977.52	1,734.23	.....	1,734.23	.....
.....	44.53	178.89	.....	178.89	.....
.....	1,332.69	2,668.08	.....	2,668.08	.....
.....	1,329.88	2,045.14	.....	2,045.14	.....
.....	7,895.69	10,191.77	.....	10,191.77	.....
.....	574.93	2,011.71	.....	2,011.71	.....
.....	19,605.88	21,560.38	.....	21,560.38	.....
.....	640.80	1,260.73	.....	1,260.73	.....
.....	3,588.34	5,850.09	.....	5,850.09	.....
.....	954.09	1,819.53	.....	1,819.53	.....
.....	975.35	1,209.39	.....	1,209.39	.....
.....	101.93	64.62	.....	64.62	.....
.....	2,434.13	4,382.36	.....	4,382.36	.....
.....	942.86	943.95	.....	943.95	.....
.....	7,345.09	10,217.62	.....	10,217.62	.....
.....	1,090.28	1,581.59	.....	1,581.59	.....
.....	1,492.13	1,816.76	.....	1,816.76	.....
.....	14,836.02	15,853.04	.....	15,853.04	.....
.....	945.67	1,316.47	.....	1,316.47	.....
.....	652.27	1,187.03	.....	1,187.03	.....
.....	528.13	953.64	.....	953.64	.....
.....	50.68	270.03	.....	270.03	.....
.....	1,281.18	2,352.43	.....	2,352.43	.....
.....	479.16	786.68	.....	786.68	.....
.....	268.90	437.61	.....	437.61	.....
.....	2,489.98	4,481.38	.....	4,481.38	.....
.....	1,556.12	2,624.83	.....	2,624.83	.....
.....	696.59	1,054.50	.....	1,054.50	.....
.....	153.43	.....	.....	.....	.....
.....	2,259.81	2,774.74	.....	2,774.74	.....
.....	299.12	616.35	.....	616.35	.....
.....	249.79	581.07	.....	581.07	.....
.....	1,206.42	2,062.79	.....	2,062.79	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1946, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1945	
		Credit	Charge
		\$ c.	\$ c.
Dundas.....	Jan. 1911	5,206.60	.....
Dunnville.....	June 1918	2,558.49	.....
Durham.....	Dec. 1915	2,350.28	.....
Dutton.....	Sept. 1915	1,096.10	.....
East York Township.....	July 1925	30,172.45	.....
Elmira.....	Nov. 1913	6,422.81	.....
Elmvale.....	June 1913	862.96	.....
Elmwood.....	April 1918	104.72	.....
Elora.....	Nov. 1914	1,468.81	.....
Embro.....	Jan. 1915	394.56	.....
Erieau.....	July 1924	952.38	.....
Erie Beach.....	July 1925	10.15	.....
Essex.....	Nov. 1923	2,475.04	.....
Etobicoke Township.....	Aug. 1917	15,928.74	.....
Exeter.....	June 1916	2,472.85	.....
Fergus.....	Nov. 1914	2,967.01	.....
Finch.....	Feb. 1928	643.53	.....
Flesherton.....	Dec. 1915	596.28	.....
Fonthill.....	June 1926	870.35	.....
Forest.....	Mar. 1917	4,397.91	.....
Forest Hill.....	Jan. 1938	12,060.39	.....
Galt.....	May 1911	7,342.41	.....
Georgetown.....	Sept. 1913	7,167.26	.....
Glencoe.....	Aug. 1920	409.15	.....
Goderich.....	Feb. 1914	6,105.75	.....
Grand Valley.....	Dec. 1916	875.10	.....
Granton.....	July 1916	381.98	.....
Gravenhurst.....	Nov. 1915	4,064.76	.....
Grimsby.....	Jan. 1942	1,902.25	.....
Guelph.....	Dec. 1910	13,683.94	.....
Hagersville.....	Sept. 1913	2,017.01	.....
Hamilton.....	Feb. 1911	55,430.60	.....
Hanover.....	Sept. 1916	7,634.36	.....
Harriston.....	July 1916	1,240.98	.....
Harrow.....	Nov. 1923	3,225.43	.....
Hastings.....	June 1931	648.97	.....
Havelock.....	Feb. 1921	404.58	.....
Hensall.....	Jan. 1917	531.10	.....
Hespeler.....	Feb. 1911	5,790.42	.....
Highgate.....	Dec. 1916	435.86	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1945, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1946

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1946		Accumulated amount standing as a credit or charge on October 31, 1946	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	5,206.60	7,410.21	.....	7,410.21	.....
.....	2,558.49	4,750.13	.....	4,750.13	.....
.....	2,350.28	3,395.93	.....	3,395.93	.....
.....	1,096.10	1,716.11	.....	1,716.11	.....
.....	30,172.45	42,242.57	.....	42,242.57	.....
.....	6,422.81	10,417.63	.....	10,417.63	.....
.....	862.96	1,006.71	.....	1,006.71	.....
.....	104.72	930.48	.....	930.48	.....
.....	1,468.81	2,088.16	.....	2,088.16	.....
.....	394.56	872.13	.....	872.13	.....
.....	952.38	1,359.00	.....	1,359.00	.....
.....	10.15	1.85	.....	1.85	.....
.....	2,475.04	3,481.39	.....	3,481.39	.....
.....	15,928.74	35,014.23	.....	35,014.23	.....
.....	2,472.85	4,681.02	.....	4,681.02	.....
.....	2,967.01	6,036.30	.....	6,036.30	.....
.....	643.53	1,378.83	.....	1,378.83	.....
.....	596.28	1,187.82	.....	1,187.82	.....
.....	870.35	1,386.18	.....	1,386.18	.....
.....	4,397.91	6,562.45	.....	6,562.45	.....
.....	12,060.39	16,681.87	.....	16,681.87	.....
.....	7,342.41	18,402.43	.....	18,402.43	.....
.....	7,167.26	10,598.77	.....	10,598.77	.....
.....	409.15	1,021.43	.....	1,021.43	.....
.....	6,105.75	10,844.64	.....	10,844.64	.....
.....	875.10	1,539.63	.....	1,539.63	.....
.....	381.98	614.30	.....	614.30	.....
.....	4,064.76	7,051.78	.....	7,051.78	.....
.....	1,902.25	4,166.70	.....	4,166.70	.....
.....	13,683.94	25,481.62	.....	25,481.62	.....
.....	2,017.01	4,250.58	.....	4,250.58	.....
.....	55,430.60	115,613.24	.....	115,613.24	.....
.....	7,634.36	10,629.62	.....	10,629.62	.....
.....	1,240.98	3,105.59	.....	3,105.59	.....
.....	3,225.43	4,179.29	.....	4,179.29	.....
.....	648.97	1,849.35	.....	1,849.35	.....
.....	404.58	2,004.00	.....	2,004.00	.....
.....	531.10	2,005.28	.....	2,005.28	.....
.....	5,790.42	9,207.04	.....	9,207.04	.....
.....	435.86	765.84	.....	765.84	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1946, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1945	
		Credit	Charge
		\$ c.	\$ c.
Holstein.....	May 1916	24.61	.....
Humberstone.....	Oct. 1924	820.82	.....
Huntsville.....	Sept. 1916	3,264.16	.....
Ingersoll.....	May 1911	6,893.27	.....
Iroquois.....	Feb. 1940	1,171.77	.....
Jarvis.....	Feb. 1924	103.87	.....
Kemptville.....	Dec. 1921	124.02	.....
Kincardine.....	Mar. 1921	5,219.72	.....
Kingston.....	Nov. 1937	44,192.22	.....
Kingsville.....	Nov. 1923	3,392.05	.....
Kirkfield.....	June 1920	24.55	.....
Kitchener.....	Jan. 1911	33,743.98	.....
Lakefield.....	Aug. 1920	589.41	.....
Lambeth.....	April 1915	437.53	.....
Lanark.....	Sept. 1921	21.46	.....
Lancaster.....	May 1921	65.21	.....
LaSalle.....	Nov. 1925	1,411.72	.....
Leamington.....	Nov. 1923	8,464.26	.....
Lindsay.....	Mar. 1928	9,026.15	.....
Listowel.....	June 1916	4,546.22	.....
London.....	Jan. 1911	39,236.56	.....
London Township.....	Jan. 1925	1,515.12	.....
Long Branch.....	Jan. 1931	3,480.49	.....
Lucan.....	Feb. 1915	884.12	.....
Lucknow.....	Jan. 1921	2,360.79	.....
Lynden.....	Nov. 1915	617.37	.....
Madoc.....	Jan. 1930	1,222.78	.....
Markdale.....	Mar. 1916	1,143.30	.....
Markham.....	April 1920	1,317.18	.....
Marmora.....	Jan. 1921	689.07	.....
Martintown.....	May 1921	328.29	.....
Maxville.....	Feb. 1921	285.22	.....
Meaford.....	Jan. 1924	4,891.95	.....
Merlin.....	Dec. 1922	396.13	.....
Merriton.....	Nov. 1920	9,791.55	.....
Midland.....	July 1911	22,613.10	.....
Mildmay.....	Dec. 1932	884.30	.....
Millbrook.....	Dec. 1938	313.33	.....
Milton.....	April 1913	6,094.48	.....
Milverton.....	June 1916	1,084.18	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1945, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1946

Cash receipts and payments on account of such credits and charges, also adjustments made during the year .		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1946		Accumulated amount standing as a credit or charge on October 31, 1946	
Credited		Charged		Credit	
\$	c.	\$	c.	\$	c.
	24.61				
	820.82	1,378.94		1,378.94	
	3,264.16	6,225.07		6,225.07	
	6,893.27	10,753.03		10,753.03	
	1,171.77	1,505.55		1,505.55	
	103.87	895.15		895.15	
	124.02	1,917.07		1,917.07	
	5,219.72	7,992.66		7,992.66	
	44,192.22	54,484.23		54,484.23	
	3,392.05	4,395.40		4,395.40	
	24.55				
	33,743.98	56,175.30		56,175.30	
	589.41	1,268.52		1,268.52	
	437.53	1,088.77		1,088.77	
	21.46	128.75		128.75	
	65.21	224.50		224.50	
	1,411.72	1,330.11		1,330.11	
	8,464.26	11,756.49		11,756.49	
	9,026.15	7,502.80		7,502.80	
	4,546.22	7,382.80		7,382.80	
	39,236.56	83,622.45		83,622.45	
	1,515.12	2,376.57		2,376.57	
	3,480.49	5,711.32		5,711.32	
	884.12	1,597.17		1,597.17	
	2,360.79	5,122.24		5,122.24	
	617.37	781.60		781.60	
	1,222.78	2,962.29		2,962.29	
	1,143.30	1,765.99		1,765.99	
	1,317.18	2,157.59		2,157.59	
	689.07	781.34		781.34	
	328.29	574.90		574.90	
	285.22	1,374.75		1,374.75	
	4,891.95	6,996.25		6,996.25	
	396.13	662.60		662.60	
	9,791.55	14,283.65		14,283.65	
	22,613.10	24,143.54		24,143.54	
	884.30	1,790.33		1,790.33	
	313.33	585.45		585.45	
	6,094.48	8,955.88		8,955.88	
	1,084.18	2,110.41		2,110.41	

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1946, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1945	
		Credit	Charge
		\$ c.	\$ c.
Mimico.....	May 1912	4,833.56	.....
Mitchell.....	Sept. 1911	2,239.80	.....
Moorefield.....	Mar. 1918	54.76	.....
Morrisburg.....	June 1938	1,505.21	.....
Mount Brydges.....	Mar. 1915	335.88	.....
Mount Forest.....	Dec. 1915	3,975.27	.....
Napanee.....	Nov. 1929	4,608.32	.....
Neustadt.....	Dec. 1918	307.01	.....
Newbury.....	Mar. 1921	22.25	.....
Newcastle.....	Jan. 1937	540.16	.....
New Hamburg.....	Mar. 1911	1,959.85	.....
Newmarket.....	April 1945	3,774.27	.....
New Toronto.....	Feb. 1914	8,590.47	.....
Niagara Falls.....	Dec. 1915	10,664.81	.....
Niagara-on-the-Lake.....	Aug. 1919	2,275.57	.....
North York Township.....	Nov. 1923	23,178.59	.....
Norwich.....	May 1912	1,719.02	.....
Norwood.....	Feb. 1921	405.50	.....
Oil Springs.....	Feb. 1918	1,044.64	.....
Ormelee.....	Jan. 1940	888.45	.....
Orangeville.....	July 1916	6,722.42	.....
Orono.....	Nov. 1938	570.82	.....
Oshawa.....	Feb. 1929	50,942.55	.....
Ottawa.....	Jan. 1914	54,763.89	.....
Otterville.....	Feb. 1916	311.80	.....
Owen Sound.....	Dec. 1915	32,343.55	.....
Paisley.....	Sept. 1923	869.90	.....
Palmerston.....	July 1916	1,874.68	.....
Paris.....	Feb. 1914	1,995.76	.....
Parkhill.....	May 1920	875.66	.....
Penetanguishene.....	July 1911	5,962.45	.....
Perth.....	Feb. 1919	5,228.47	.....
Peterborough.....	Mar. 1913	35,268.48	.....
Petrolia.....	May 1916	5,534.07	.....
Pictou.....	April 1919	6,028.91	.....
Plattsville.....	Dec. 1914	631.01	.....
Point Edward.....	Nov. 1916	7,624.36	.....
Port Colborne.....	Mar. 1920	2,751.75	.....
Port Credit.....	Aug. 1912	2,751.37	.....
Port Dalhousie.....	Nov. 1912	2,608.89	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1945, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1946

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1946		Accumulated amount standing as a credit or charge on October 31, 1946	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	4,833.56	8,938.98	.....	8,938.98	.....
.....	2,239.80	3,719.93	.....	3,719.93	.....
.....	54.76	108.25	.....	108.25	.....
.....	1,505.21	2,424.92	.....	2,424.92	.....
.....	335.88	772.38	.....	772.38	.....
.....	3,975.27	6,504.93	.....	6,504.93	.....
.....	4,608.32	5,135.88	.....	5,135.88	.....
.....	307.01	343.86	.....	343.86	.....
.....	22.25	320.16	.....	320.16	.....
.....	540.16	1,645.99	.....	1,645.99	.....
.....	1,959.85	2,816.20	.....	2,816.20	.....
.....	3,774.27	10,514.89	.....	10,514.89	.....
.....	8,590.47	16,578.80	.....	16,578.80	.....
.....	10,664.81	17,055.25	.....	17,055.25	.....
.....	2,275.57	3,814.09	.....	3,814.09	.....
.....	23,178.59	34,572.00	.....	34,572.00	.....
.....	1,719.02	2,695.03	.....	2,695.03	.....
.....	405.50	2,027.06	.....	2,027.06	.....
.....	1,044.64	1,490.29	.....	1,490.29	.....
.....	888.45	1,479.08	.....	1,479.08	.....
.....	6,722.42	11,378.25	.....	11,378.25	.....
.....	570.82	1,223.93	.....	1,223.93	.....
.....	50,942.55	67,330.62	.....	67,330.62	.....
.....	54,763.89	76,487.94	.....	76,487.94	.....
.....	311.80	787.42	.....	787.42	.....
.....	32,343.55	42,007.93	.....	42,007.93	.....
.....	869.90	1,981.10	.....	1,981.10	.....
.....	1,874.68	3,581.94	.....	3,581.94	.....
.....	1,995.76	3,818.82	.....	3,818.82	.....
.....	875.66	2,174.88	.....	2,174.88	.....
.....	5,962.45	8,607.56	.....	8,607.56	.....
.....	5,228.47	6,879.08	.....	6,879.08	.....
.....	35,268.48	44,825.65	.....	44,825.65	.....
.....	5,534.07	8,605.28	.....	8,605.28	.....
.....	6,028.91	11,612.86	.....	11,612.86	.....
.....	631.01	1,091.57	.....	1,091.57	.....
.....	7,624.36	9,281.82	.....	9,281.82	.....
.....	2,751.75	5,247.67	.....	5,247.67	.....
.....	2,751.37	4,245.68	.....	4,245.68	.....
.....	2,608.89	3,682.30	.....	3,682.30	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1946, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1945	
		Credit	Charge
		\$ c.	\$ c.
Port Doyer.....	Dec. 1921	1,428.89	.....
Port Elgin.....	Mar. 1931	3,183.68	.....
Port Hope.....	Nov. 1929	5,996.50	.....
Port McNicoll.....	Jan. 1915	774.69	.....
Port Perry.....	Sept. 1922	2,932.08	.....
Port Rowan.....	Nov. 1926	27.00	.....
Port Stanley.....	April 1912	2,809.48	.....
Prescott.....	Dec. 1913	4,845.71	.....
Preston.....	Jan. 1911	5,483.33	.....
Priceville.....	Mar. 1920	61.02	.....
Princeton.....	Jan. 1915	556.14	.....
Queenston.....	Mar. 1921	252.69	.....
Renfrew.....	Dec. 1944	407.58	.....
Richmond.....	Aug. 1928	383.61	.....
Richmond Hill.....	June 1925	301.02	.....
Ridgetown.....	Dec. 1915	2,348.89	.....
Ripley.....	Jan. 1921	107.57	.....
Riverside.....	Nov. 1922	5,679.52	.....
Rockwood.....	Sept. 1913	287.66	.....
Rodney.....	Feb. 1917	304.77	.....
Rosseau.....	July 1931	27.70	.....
Russell.....	Feb. 1926	320.42	.....
St. Catharines.....	April 1914	11,361.00	.....
St. Clair Beach.....	Nov. 1922	563.62	.....
St. George.....	Sept. 1915	1,044.53	.....
St. Jacobs.....	Sept. 1917	1,507.10	.....
St. Marys.....	May 1911	5,322.17	.....
St. Thomas.....	April 1911	6,226.28	.....
Sarnia.....	Dec. 1916	19,337.19	.....
Scarborough Township.....	Aug. 1918	11,662.70	.....
Seaforth.....	Nov. 1911	3,599.25	.....
Shelburne.....	July 1916	2,004.04	.....
Simcoe.....	Aug. 1915	5,520.14	.....
Smiths Falls.....	Sept. 1918	9,189.55	.....
Smithville.....	Nov. 1940	691.23	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1945, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1946

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1946		Accumulated amount standing as a credit or charge on October 31, 1946	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	1,428.89	2,768.42	.....	2,768.42	.....
.....	3,183.68	3,494.36	.....	3,494.36	.....
.....	5,996.50	9,626.54	.....	9,626.54	.....
.....	774.69	1,206.97	.....	1,206.97	.....
.....	2,932.08	4,406.28	.....	4,406.28	.....
.....	27.00	392.81	.....	392.81	.....
.....	2,809.48	4,584.87	.....	4,584.87	.....
.....	4,845.71	5,266.21	.....	5,266.21	.....
.....	5,483.33	9,714.76	.....	9,714.76	.....
.....	61.02	.....	.....	.....	.....
.....	556.14	1,171.98	.....	1,171.98	.....
.....	252.69	553.70	.....	553.70	.....
.....	407.58	3,513.57	.....	3,513.57	.....
.....	383.61	839.79	.....	839.79	.....
.....	301.02	1,143.94	.....	1,143.94	.....
.....	2,348.89	3,076.83	.....	3,076.83	.....
.....	107.57	644.53	.....	644.53	.....
.....	5,679.52	6,153.31	.....	6,153.31	.....
.....	287.66	1,011.82	.....	1,011.82	.....
.....	304.77	1,323.03	.....	1,323.03	.....
.....	27.70	.....	.....	.....	.....
.....	320.42	920.34	.....	920.34	.....
.....	11,361.00	22,280.66	.....	22,280.66	.....
.....	563.62	715.26	.....	715.26	.....
.....	1,044.53	1,657.85	.....	1,657.85	.....
.....	1,507.10	1,839.64	.....	1,839.64	.....
.....	5,322.17	10,666.10	.....	10,666.10	.....
.....	6,226.28	15,884.38	.....	15,884.38	.....
.....	19,337.19	32,703.58	.....	32,703.58	.....
.....	11,662.70	20,398.05	.....	20,398.05	.....
.....	3,599.25	5,718.52	.....	5,718.52	.....
.....	2,004.04	3,516.38	.....	3,516.38	.....
.....	5,520.14	8,655.55	.....	8,655.55	.....
.....	9,189.55	12,927.51	.....	12,927.51	.....
.....	691.23	1,451.83	.....	1,451.83	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1946, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1945	
		Credit	Charge
		\$ c.	\$ c.
Southampton.....	Feb. 1931	3,379.28	.....
Springfield.....	Aug. 1917	296.54	.....
Stamford Township.....	Nov. 1916	3,149.51	.....
Stayner.....	Oct. 1913	1,953.20	.....
Stirling.....	Jan. 1920	1,046.25	.....
Stouffville.....	Sept. 1923	1,354.17	.....
Stratford.....	Jan. 1911	11,322.44	.....
Strathroy.....	Dec. 1914	3,948.95	.....
Streetsville.....	Dec. 1934	746.30	.....
Sunderland.....	Nov. 1914	346.31	.....
Sutton.....	Aug. 1923	1,188.45	.....
Swansea.....	Oct. 1937	4,139.64	.....
Tara.....	Feb. 1918	743.53	.....
Tavistock.....	Nov. 1916	1,407.08	.....
Tecumseh.....	Nov. 1922	1,912.22	.....
Teeswater.....	Dec. 1920	1,107.44	.....
Thamesford.....	Feb. 1914	1,216.61	.....
Thamesville.....	Oct. 1915	967.41	.....
Thedford.....	May 1922	136.87	.....
Thornbury.....	Sept. 1944	592.03	.....
Thorndale.....	Mar. 1914	200.92	.....
Thornton.....	Nov. 1918	188.12	.....
Thorold.....	Jan. 1921	9,145.12	.....
Tilbury.....	April 1915	6,259.53	.....
Tillsonburg.....	Aug. 1911	4,553.41	.....
Toronto.....	June 1911	364,212.27	.....
Toronto Township.....	Aug. 1913	9,075.21	.....
Tottenham.....	Oct. 1918	114.60	.....
Trafalgar.....	Nov. 1936	787.05	.....
Trenton.....	Sept. 1931	12,474.62	.....
Tweed.....	Dec. 1930	1,683.89	.....
Uxbridge.....	Sept. 1922	3,091.67	.....
Victoria Harbour.....	July 1914	454.60	.....
Walkerton.....	Feb. 1931	6,211.22	.....
Wallaceburg.....	Feb. 1915	23,442.56	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1945, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1946

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1946		Accumulated amount standing as a credit or charge on October 31, 1946	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	3,379.28	3,249.98	.....	3,249.98	.....
.....	296.54	898.42	.....	898.42	.....
.....	3,149.51	4,711.10	.....	4,711.10	.....
.....	1,953.20	2,993.68	.....	2,993.68	.....
.....	1,046.25	1,508.98	.....	1,508.98	.....
.....	1,354.17	2,845.40	.....	2,845.40	.....
.....	11,322.44	23,092.32	.....	23,092.32	.....
.....	3,948.95	6,716.94	.....	6,716.94	.....
.....	746.30	1,357.25	.....	1,357.25	.....
.....	346.31	935.44	.....	935.44	.....
.....	1,188.45	3,075.90	.....	3,075.90	.....
.....	4,139.64	4,730.60	.....	4,730.60	.....
.....	743.53	1,588.30	.....	1,588.30	.....
.....	1,407.08	2,930.35	.....	2,930.35	.....
.....	1,912.22	2,325.69	.....	2,325.69	.....
.....	1,107.44	1,996.56	.....	1,996.56	.....
.....	1,216.61	2,245.15	.....	2,245.15	.....
.....	967.41	1,408.22	.....	1,408.22	.....
.....	136.87	218.04	.....	218.04	.....
.....	592.03	2,198.63	.....	2,198.63	.....
.....	200.92	904.56	.....	904.56	.....
.....	188.12	347.08	.....	347.08	.....
.....	9,145.12	10,148.06	.....	10,148.06	.....
.....	6,259.53	4,068.43	.....	4,068.43	.....
.....	4,553.41	6,765.74	.....	6,765.74	.....
.....	364,212.27	615,550.43	.....	615,550.43	.....
.....	9,075.21	18,356.52	.....	18,356.52	.....
.....	114.60	107.96	.....	107.96	.....
.....	787.05	2,490.47	.....	2,490.47	.....
.....	12,474.62	14,972.28	.....	14,972.28	.....
.....	1,683.89	3,067.91	.....	3,067.91	.....
.....	3,091.67	5,298.62	.....	5,298.62	.....
.....	454.60	638.39	.....	638.39	.....
.....	6,211.22	8,833.52	.....	8,833.52	.....
.....	23,442.56	27,738.73	.....	27,738.73	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of
and adjustments made during the year. Also the net amount Credited
ended October 31, 1946, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1945	
		Credit	Charge
		\$ c.	\$ c.
Wardsville.....	June 1921	36.94	.....
Warkworth.....	Oct. 1923	293.28	.....
Waterdown.....	Nov. 1911	694.42	.....
Waterford.....	April 1915	1,493.73	.....
Waterloo.....	Dec. 1910	9,394.49	.....
Watford.....	Sept. 1917	2,021.45	.....
Waubashene.....	Dec. 1914	575.36	.....
Welland.....	Sept. 1917	911.34	.....
Wellesley.....	Nov. 1916	421.03	.....
Wellington.....	April 1919	1,527.33	.....
West Lorne.....	Jan. 1917	1,223.63	.....
Weston.....	Aug. 1911	7,771.63	.....
Westport.....	Nov. 1931	116.90	.....
Wheatley.....	Feb. 1924	530.35	.....
Whitby.....	Jan. 1926	4,222.22	.....
Warton.....	May 1931	2,211.91	.....
Williamsburg.....	April 1915	416.98	.....
Winchester.....	Jan. 1914	999.11	.....
Windermere.....	June 1930	29.80	.....
Windsor.....	Oct. 1914	108,640.40	.....
Wingham.....	Dec. 1920	6,371.69	.....
Woodbridge.....	Dec. 1914	1,944.86	.....
Woodstock.....	Jan. 1911	22,179.85	.....
Woodville.....	Nov. 1914	331.38	.....
Wyoming.....	Nov. 1916	643.42	.....
York Township.....	Jan. 1941	53,362.02	.....
Zurich.....	Sept. 1917	557.80	.....
Ontario Reformatory.....	Sept. 1913	1,155.86	.....
Toronto Transportation Commission.....	Jan. 1927	5,480.06	.....
		1,797,094.60	375.82

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1945, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1946

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1946		Accumulated amount standing as a credit or charge on October 31, 1946	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	36.94	.....	324.70	.....	324.70
.....	293.28	.....	247.43	.....	247.43
.....	694.42	.....	1,061.71	.....	1,061.71
.....	1,493.73	.....	2,140.46	.....	2,140.46
.....	9,394.49	.....	15,770.52	.....	15,770.52
.....	2,021.45	.....	3,456.84	.....	3,456.84
.....	575.36	.....	1,239.96	.....	1,239.96
.....	911.34	.....	5,621.85	.....	5,621.85
.....	421.03	.....	822.33	.....	822.33
.....	1,527.33	.....	2,320.01	.....	2,320.01
.....	1,223.63	.....	2,952.92	.....	2,952.92
.....	7,771.63	.....	12,552.07	.....	12,552.07
.....	116.90	.....	387.58	.....	387.58
.....	530.35	.....	1,366.12	.....	1,366.12
.....	4,222.22	.....	6,458.82	.....	6,458.82
.....	2,211.91	.....	4,147.37	.....	4,147.37
.....	416.98	.....	708.13	.....	708.13
.....	999.11	.....	2,246.02	.....	2,246.02
.....	29.80	.....	.....	.....	.....
.....	108,640.40	.....	89,084.72	.....	89,084.72
.....	6,371.69	.....	10,569.52	.....	10,569.52
.....	1,944.86	.....	4,274.46	.....	4,274.46
.....	22,179.85	.....	30,349.53	.....	30,349.53
.....	331.38	.....	881.77	.....	881.77
.....	643.42	.....	1,217.19	.....	1,217.19
.....	53,362.02	.....	76,866.83	.....	76,866.83
.....	557.80	.....	1,052.14	.....	1,052.14
.....	1,155.86	.....	1,544.36	.....	1,544.36
.....	5,480.06	.....	5,574.02	.....	5,574.02
375.82	1,797,094.60	2,794,887.84	.....	2,794,887.84	.....

SOUTHERN ONTARIO SYSTEM *S.O.—SINKING FUND*

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1946

Municipality	Period of years ended Oct. 31, 1946	Amount	Municipality	Period of years ended Oct. 31, 1946	Amount
		\$ c.			\$ c.
Acton.....	29 years	117,318.25	Bridgen.....	24 years	17,751.69
Agincourt.....	23 "	18,401.46	Brighton.....	17 "	20,946.39
Ailsa Craig.....	26 "	23,011.50	Brockville.....	26 "	286,672.22
Alexandria.....	22 "	44,943.34	Brussels.....	23 "	20,638.50
Alliston.....	23 "	38,900.12	Burford.....	26 "	22,002.61
Almonte.....	2 "	1,611.81	Burgessville.....	25 "	8,185.26
Alvinston.....	23 "	22,918.87	Burlington.....	2 "	7,319.46
Amherstburg.....	23 "	89,062.51	Caledonia.....	29 "	36,203.03
Ancaster Township.....	23 "	29,165.85	Campbellville.....	22 "	4,480.41
Apple Hill.....	22 "	5,176.92	Cannington.....	27 "	23,764.25
Arkona.....	20 "	9,981.37	Cardinal.....	17 "	11,590.74
Arnprior.....	8 "	21,237.61	Carleton Place.....	22 "	126,126.62
Arthur.....	25 "	29,500.75	Cayuga.....	22 "	16,017.60
Athens.....	18 "	10,654.28	Chatham.....	26 "	633,208.59
Aurora.....	4 "	13,474.90	Chatsworth.....	26 "	7,466.21
Aylmer.....	23 "	71,682.62	Chesley.....	25 "	56,938.95
Ayr.....	27 "	23,869.67	Chesterville.....	27 "	39,457.10
Baden.....	29 "	50,495.83	Chippawa.....	25 "	26,909.67
Barrie.....	28 "	259,062.47	Clifford.....	23 "	12,006.00
Bath.....	15 "	3,733.13	Clinton.....	27 "	73,662.33
Beachville.....	29 "	65,704.85	Cobden.....	11 "	4,007.37
Beamsville.....	10 "	12,354.92	Cobourg.....	15 "	89,789.25
Beaverton.....	27 "	31,456.46	Colborne.....	14 "	8,783.90
Beeton.....	23 "	23,589.30	Coldwater.....	28 "	22,300.39
Belle River.....	24 "	17,430.95	Collingwood.....	28 "	217,218.79
Belleville.....	18 "	308,428.25	Comber.....	26 "	27,449.66
Blenheim.....	26 "	59,882.68	Cookstown.....	23 "	8,743.70
Bloomfield.....	18 "	10,433.62	Cottam.....	20 "	7,521.37
Blyth.....	23 "	15,939.35	Courtright.....	23 "	8,828.69
Bobcaygeon.....	1 "	121.89	Creemore.....	27 "	18,418.37
Bolton.....	26 "	27,178.02	Dashwood.....	24 "	13,357.17
Bothwell.....	26 "	25,563.19	Delaware.....	26 "	5,569.24
Bowmanville.....	15 "	116,286.19	Delhi.....	9 "	15,334.85
Bradford.....	23 "	28,513.71	Deseronto.....	16 "	12,963.51
Braeside.....	2 "	867.38	Dorchester.....	27 "	11,999.48
Brampton.....	30 "	270,140.61	Drayton.....	23 "	20,203.88
Brantford.....	27 "	1,500,852.28	Dresden.....	26 "	50,572.46
Brantford Township.....	23 "	63,094.99	Drumbo.....	27 "	10,587.41
Brechin.....	27 "	11,105.65	Dublin.....	24 "	8,555.52
Bridgeport.....	19 "	11,203.43	Dundalk.....	26 "	20,411.46

SOUTHERN ONTARIO SYSTEM

S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1946

Municipality	Period of years ended Oct. 31, 1946	Amount	Municipality	Period of years ended Oct. 31, 1946	Amount
		\$ c.			\$ c.
Dundas.....	30 years	225,385.44	Holstein.....	25 years	4,067.78
Dunnville.....	24 "	102,642.44	Humberstone.....	23 "	36,305.50
Durham.....	26 "	47,468.69	Huntsville.....	25 "	96,670.25
Dutton.....	26 "	30,582.53	Ingersoll.....	30 "	291,980.39
East York Township.	22 "	490,352.64	Iroquois.....	7 "	4,044.14
Elmira.....	28 "	120,626.67	Jarvis.....	23 "	23,909.35
Elmvale.....	28 "	22,474.41	Kemptville.....	22 "	32,781.35
Elmwood.....	23 "	6,802.71	Kincardine.....	22 "	69,559.74
Elora.....	27 "	56,938.13	Kingston.....	9 "	269,055.95
Embro.....	27 "	17,449.26	Kingsville.....	23 "	65,939.28
Erieau.....	23 "	11,616.36	Kirkfield.....	22 "	4,885.42
Erie Beach.....	22 "	2,660.34	Kitchener.....	30 "	2,101,108.16
Essex.....	23 "	52,058.04	Lakefield.....	18 "	22,176.88
Etobicoke Township.	24 "	409,401.68	Lambeth.....	26 "	15,290.10
Exeter.....	25 "	68,128.63	Lanark.....	22 "	9,978.66
Fergus.....	27 "	105,598.07	Lancaster.....	22 "	9,127.55
Finch.....	19 "	7,466.35	LaSalle.....	21 "	23,322.45
Flesherton.....	26 "	9,844.48	Leamington.....	23 "	148,755.44
Fonthill.....	21 "	11,359.31	Lindsay.....	18 "	174,775.22
Forest.....	24 "	55,152.89	Listowel.....	25 "	127,436.37
Forest Hill.....	23 "	326,272.96	London.....	30 "	3,803,603.03
Galt.....	30 "	882,012.06	London Township.....	22 "	35,982.06
Georgetown.....	28 "	168,937.11	Long Branch.....	16 "	53,886.92
Glencoe.....	23 "	31,885.72	Lucan.....	26 "	27,557.63
Goderich.....	27 "	194,163.29	Lucknow.....	22 "	33,231.60
Grand Valley.....	25 "	18,842.30	Lynden.....	26 "	19,205.50
Granton.....	25 "	12,061.43	Madoc.....	17 "	13,669.24
Gravenhurst.....	26 "	54,058.08	Markdale.....	25 "	16,382.09
Grimsby.....	5 "	11,362.57	Markham.....	23 "	31,602.92
Guelph.....	30 "	1,041,848.01	Marmora.....	18 "	9,561.49
Hagersville.....	28 "	117,176.72	Martintown.....	22 "	3,337.12
Hamilton.....	30 "	8,392,223.98	Maxville.....	22 "	14,687.08
Hanover.....	25 "	127,160.81	Meaford.....	22 "	51,409.55
Harriston.....	25 "	53,658.62	Merlin.....	23 "	17,189.01
Harrow.....	23 "	43,743.07	Merritton.....	25 "	329,768.28
Hastings.....	16 "	6,901.48	Midland.....	28 "	344,509.35
Havelock.....	18 "	18,714.99	Mildmay.....	14 "	6,796.51
Hensall.....	25 "	26,331.42	Millbrook.....	8 "	2,467.36
Hespeler.....	30 "	192,906.58	Milton.....	28 "	154,077.37
Highgate.....	25 "	14,630.36	Milverton.....	25 "	62,869.78

SOUTHERN ONTARIO SYSTEM S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1946

Municipality	Period of years ended Oct. 31, 1946	Amount	Municipality	Period of years ended Oct. 31, 1946	Amount
		\$ c.			\$ c.
Mimico.....	29 years	223,418.50	Port Dover.....	23 years	42,919.66
Mitchell.....	30 "	70,165.58	Port Elgin.....	16 "	24,579.11
Moorefield.....	23 "	9,622.24	Port Hope.....	17 "	107,223.22
Morrisburg.....	9 "	6,042.61	Port McNicoll.....	27 "	9,760.08
Mount Brydges.....	26 "	11,832.66	Port Perry.....	22 "	28,761.28
Mount Forest.....	26 "	52,998.72	Port Rowan.....	20 "	11,109.19
Napanee.....	17 "	71,746.19	Port Stanley.....	29 "	64,091.15
Neustadt.....	23 "	9,171.71	Prescott.....	27 "	81,205.36
Newbury.....	23 "	6,609.35	Preston.....	30 "	394,180.57
Newcastle.....	10 "	5,240.35	Priceville.....	22 "	1,460.97
New Hamburg.....	30 "	74,662.53	Princeton.....	27 "	15,117.82
Newmarket.....	2 "	7,940.59	Queenston.....	23 "	10,684.11
New Toronto.....	27 "	756,692.71	Renfrew.....	2 "	2,153.50
Niagara Falls.....	26 "	857,376.59	Richmond.....	19 "	5,318.66
Niagara-on-the-Lake	23 "	51,798.13	Richmond Hill.....	22 "	33,819.59
North York Township	23 "	342,039.83	Ridgetown.....	26 "	65,662.02
Norwich.....	29 "	55,123.43	Ripley.....	22 "	12,863.25
Norwood.....	18 "	9,989.38	Riverside.....	24 "	127,459.49
Oil Springs.....	23 "	35,813.35	Rockwood.....	28 "	16,995.95
Omeme.....	7 "	3,826.90	Rodney.....	24 "	20,900.33
Orangeville.....	25 "	71,974.65	Rosseau.....	16 "	6,040.46
Orono.....	8 "	2,530.02	Russell.....	21 "	8,769.41
Oshawa.....	18 "	921,000.73	St. Catharines.....	25 "	1,125,909.92
Ottawa.....	31 "	412,823.15	St. Clair Beach.....	24 "	10,737.24
Otterville.....	25 "	13,683.44	St. George.....	26 "	21,431.60
Owen Sound.....	26 "	362,046.69	St. Jacobs.....	24 "	26,335.09
Paisley.....	22 "	17,178.98	St. Marys.....	30 "	197,895.11
Palmerston.....	25 "	67,382.82	St. Thomas.....	30 "	757,517.61
Paris.....	27 "	174,063.89	Sarnia.....	25 "	962,247.77
Parkhill.....	23 "	29,979.15	Scarborough Twp....	23 "	317,926.62
Penetanguishene.....	30 "	98,367.31	Seaforth.....	30 "	93,187.65
Perth.....	22 "	112,677.57	Shelburne.....	25 "	29,662.40
Peterborough.....	18 "	561,787.67	Simcoe.....	26 "	180,155.68
Petrolia.....	25 "	152,987.01	Smiths Falls.....	23 "	165,192.34
Picton.....	18 "	89,224.06	Smithville.....	6 "	3,329.18
Plattsville.....	27 "	14,612.79	Southampton.....	16 "	23,243.94
Point Edward.....	24 "	104,740.90	Springfield.....	24 "	13,355.34
Port Colborne.....	25 "	156,986.47	Stamford Township..	25 "	157,125.00
Port Credit.....	29 "	66,712.81	Stayner.....	28 "	26,453.87
Port Dalhousie.....	25 "	60,737.39	Stirling.....	17 "	14,953.11

SOUTHERN ONTARIO SYSTEM

S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1946

Municipality	Period of years ended Oct. 31, 1946	Amount	Municipality	Period of years ended Oct. 31, 1946	Amount
		\$ c.			\$ c.
Stouffville.....	23 years	27,563.60	Watford.....	24 years	37,924.63
Stratford.....	30 "	888,118.24	Waubashene.....	27 "	7,472.08
Strathroy.....	27 "	138,484.19	Welland.....	24 "	518,578.52
Streetsville.....	12 "	6,756.38	Wellesley.....	25 "	23,346.57
Sunderland.....	27 "	15,114.18	Wellington.....	18 "	16,825.55
Sutton.....	23 "	27,498.79	West Lorne.....	25 "	36,755.76
Swansea.....	21 "	148,244.50	Weston.....	30 "	373,354.24
Tara.....	23 "	13,284.67	Westport.....	15 "	8,997.25
Tavistock.....	25 "	69,829.58	Wheatley.....	23 "	22,344.00
Tecumseh.....	24 "	41,429.73	Whitby.....	18 "	85,372.42
Teeswater.....	22 "	19,322.22	Wiarton.....	16 "	25,335.63
Thamesford.....	27 "	26,234.26	Williamsburg.....	26 "	9,526.64
Thamesville.....	26 "	26,415.93	Winchester.....	27 "	30,480.03
Thedford.....	23 "	15,118.25	Windermere.....	17 "	4,214.85
Thornbury.....	2 "	565.14	Windsor.....	27 "	4,709,684.52
Thorndale.....	27 "	12,849.56	Wingham.....	22 "	61,878.60
Thornton.....	23 "	5,117.83	Woodbridge.....	27 "	51,037.31
Thorold.....	24 "	166,079.87	Woodstock.....	30 "	638,933.96
Tilbury.....	26 "	81,448.88	Woodville.....	27 "	14,642.25
Tillsonburg.....	30 "	137,131.81	Wyoming.....	25 "	12,431.80
Toronto.....	30 "	29,183,587.60	York Township.....	26 "	1,194,468.79
Toronto Township...	28 "	195,071.54	Zurich.....	24 "	20,043.41
Tottenham.....	23 "	16,759.42	Ontario Reformatory.	12 "	11,541.62
Trafalgar Township..	10 "	18,273.35	Toronto Transporta-		
Trenton.....	15 "	157,893.08	tion Commission...	25 "	236,597.29
Tweed.....	16 "	17,486.22	Sandwich, Windsor &		
Uxbridge.....	22 "	31,378.65	Amherstburg Rly..	24 "	231,146.07
Victoria Harbour....	27 "	9,822.51			
Walkerton.....	16 "	39,036.34			
Wallaceburg.....	26 "	308,416.85			
Wardsville.....	23 "	5,646.94			
Warkworth.....	18 "	6,365.04			
Waterdown.....	30 "	32,779.59			
Waterford.....	26 "	49,042.64			
Waterloo.....	30 "	420,333.70			
			Total Municipalities.....		\$79,782,957.95
			Total—Rural Power Dis-		
			trict.....	7,735,811.29	
			Total—Rural lines.....	781.84	
			Grand Total.....		\$87,519,551.08

SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

RURAL POWER DISTRICT

Operating Account for the year ended October 31, 1946

Revenue from customers in rural power district	\$6,961,246.06
Cost of power as provided to be paid under Power Commission Act. . \$3,258,030.20	
Cost of operation, maintenance and administration	1,983,609.85
Interest (including interest on sinking fund, renewals, and other reserves and after deducting interest earned on investments).	942,715.98
Provision for renewals	451,226.89
Provision for sinking fund	240,780.90
	<hr/> 6,876,363.82
Balance	<hr/> \$84,882.24

Rates Suspense Account—as at October 31, 1946

Balance at credit November 1, 1945	\$3,130,489.19
Interest on account balances	125,197.58
Operating balance for the year	84,882.24
Adjustments made during the year	\$1,369.36
Balance at credit October 31, 1946	3,339,199.65
	<hr/> \$3,340,569.01
	<hr/> \$3,340,569.01

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM—Rural Lines

Georgian Bay Division

Statement showing Interest, Renewals, Contingencies and Obsolescence and Sinking Fund charged by the Commission to the Municipality that operates the rural line for the year ended October 31, 1946

Operated by	Capital cost	Interest	Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Total interest, renewals, contingencies and obsolescence, and sinking fund charged
Brechin.....	\$ c. 922.02	\$ c. 48.22	\$ c. 18.44	\$ c. 9.22	\$ c. 16.60	\$ c. 92.48

Statement showing the total Sinking Fund in respect of the line, together with interest allowed thereon to October 31, 1946

Operated by	Period of years ended October 31, 1946	Amount
Brechin.....	28 years	\$ c. 781.84

THUNDER BAY

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To October 31, 1946			Operating maintenance and administrative expenses	Interest	Provision for renewals
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Fort William.....	20.00	2,766,661.02	17,325.4	70,107.76	117,794.55	24,592.56
Nipigon Township....	28.00	63,081.16	317.1	2,180.31	2,386.79	545.39
Port Arthur.....	20.00	3,616,102.44	22,714.9	91,302.29	153,908.86	32,074.72
Totals—Municipalities.....		6,445,844.62	40,357.4	163,590.36	274,090.20	57,212.67
Totals—Rural power district.....		196,644.33	1,019.2	4,479.97	8,407.14	1,953.34
Totals—Companies.....		9,717,273.29	63,318.1	262,498.74	409,453.16	81,894.26
Totals—Rainy River district (N.O.P.).....		2,520,844.21	17,357.5	59,981.58	107,795.22	20,951.03
Totals—Mining area (mines).....		1,961,589.90	8,639.9	130,232.37	83,934.11	8,436.65
Totals—Mining area (townsites)...		291,123.71	768.2	27,376.68	12,393.23	750.14
		21,133,320.06				
Non-operating capital.....		1,748,012.79				
Grand Totals.....		22,881,332.85	131,460.3	648,159.70	896,073.06	171,198.09

THUNDER BAY

Statement showing the net Credit or Charge to each Municipality in respect of power ments made during the year; also the net amount Credited or Charged to each 1946, and the accumulated amount standing as a Credit

Municipality	Date commenced operating	Net credit or charge at October 31, 1945	
		Credit	Charge
		\$ c.	\$ c.
Fort William.....	Oct. 1926	24,701.70	.....
Nipigon Township.....	Jan. 1925	1,422.91	.....
Port Arthur.....	Dec. 1910	36,978.29	.....
Totals.....		63,102.90	.....

SYSTEM

T.B.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1946

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for contingencies and obsolescence	Provision for stabilization of rates	Provision for sinking fund				
			Debit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
73,635.45		29,087.46	6,774.32	321,992.10	346,507.98	24,515.88
1,379.48		594.95	123.99	7,210.91	8,877.41	1,666.50
96,485.61		38,017.93	8,881.64	420,671.05	454,298.32	33,627.27
171,500.54		67,700.34	15,779.95	749,874.06	809,683.71	59,809.65
4,500.62		2,066.70	398.51	21,806.28	21,806.28	
266,550.16		100,654.46	(16,178.46)	1,104,872.32	1,104,872.32	
11,791.60		26,498.93		227,018.36	227,018.36	
84,812.13	(82,103.07)	11,647.72		236,959.91	236,959.91	
18,278.74	(8,232.74)	1,035.63		51,601.68	51,601.68	
557,433.79	(90,335.81)	209,603.78		2,392,132.61	2,451,942.26	59,809.65

SYSTEM

T.B.—CREDIT OR CHARGE

supplied to it to October 31, 1945, the cash receipts and payments thereon, and adjustment—Municipality in respect of power supplied in the year ended October 31, or Charge to each Municipality at October 31, 1946

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged in respect of power supplied in the year ended October 31, 1946		Accumulated amount standing as a credit or charge on October 31, 1946	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	24,701.70	24,515.88		24,515.88	
	1,422.91	1,666.50		1,666.50	
	36,978.29	33,627.27		33,627.27	
	63,102.90	59,809.65		59,809.65	

THUNDER BAY SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1946

Municipality	Period of years ended October 31, 1946	Amount
		\$ c.
Fort William.....	20 years	1,306,452.57
Nipigon Township.....	20 years	13,898.32
Port Arthur.....	20 years	3,396,541.16
Total—Municipalities.....		4,716,892.05
Total—Rural power district.....		63,925.12
Grand total.....		4,780,817.17

THUNDER BAY SYSTEM—RURAL POWER DISTRICT

Operating Account for year ended October 31, 1946

Revenue from customers in rural power district.....	\$62,000.06
Cost of power as provided to be paid under Power Commission Act....	\$21,806.28
Cost of operation, maintenance and administration.....	24,544.15
Interest (including interest on sinking fund, renewals, and other reserves and after deducting interest earned on investments).....	11,900.23
Provision for renewals.....	5,556.30
Provision for sinking fund.....	2,925.39
	66,732.35
	(\$4,732.29)

Rates Suspense Account as at October 31, 1946

Balance at debit, November 1, 1945.....	\$17,902.64
Interest on account balances.....	716.12
Operating balance for the year.....	4,732.29
Balance at debit, October 31, 1946.....	\$23,351.05
	\$23,351.05 \$23,351.05

NORTHERN ONTARIO PROPERTIES .

(Operated by The Hydro-Electric Power Commission of Ontario)

FINANCIAL ACCOUNTS

For the year ended October 31, 1946

Relating to Power Properties which are held and operated by the
Commission in trust for the Province of Ontario, and which
are situated in the following Northern Districts:

Abitibi	Timiskaming	Sudbury	Nipissing
Patricia	Rainy River	Rural Power	

STATEMENTS

Balance Sheet as at October 31, 1946

Operating Account for the year ended October 31, 1946

Schedules supporting the Balance Sheet as at October 31, 1946

Fixed Assets—By Districts

Fixed Assets—Changes during year

Renewals Reserve

Contingencies and Obsolescence Reserve

Sinking Fund Reserve

THE HYDRO-ELECTRIC POWER NORTHERN ONTARIO

Held and Operated by The Hydro-Electric Power Commission

BALANCE SHEET AS AT

ASSETS

FIXED ASSETS:

Abitibi district.....	\$ 28,988,591.40
Timiskaming district.....	12,678,934.86
Sudbury district.....	4,385,982.83
Nipissing district.....	1,479,095.88
Patricia district.....	4,885,682.54
Rainy River district.....	1,542,341.21
Rural Power district.....	1,262,780.08

\$ 55,223,408.80

Less: Grants-in-aid of construction:

Province of Ontario—for rural power district..... 588,909.91

\$ 54,634,498.89

CURRENT ASSETS:

Employees' working funds.....	\$ 18,795.00
The Hydro-Electric Power Commission of Ontario—current account.....	2,640,728.47
Sundry accounts receivable.....	27,289.04
Power accounts receivable.....	614,432.90
Interest accrued.....	15,234.38
Consumers' deposits—securities:	
Bonds at par value.....	\$ 1,204,450.00
Stocks at market value.....	223,462.95
	1,427,912.95
Prepayments.....	67,386.00

4,811,778.74

INVENTORIES:

Maintenance materials and supplies.....	\$ 381,613.31
Maintenance tools and equipment.....	137,539.06

519,152.37

DEFERRED CHARGES AND SUNDRY ASSETS:

Work in progress—deferred work orders.....	\$ 484,414.47
Unamortized discount on debentures.....	74,367.76

558,782.23

INVESTMENTS (Including sinking fund investments of \$2,396,435.12):

Province of Ontario and Dominion of Canada bonds at amortized cost..... 2,436,163.47

\$ 62,960,375.70

COMMISSION OF ONTARIO

PROPERTIES

of Ontario in trust for the Province of Ontario

OCTOBER 31, 1946

LIABILITIES AND RESERVES

LONG TERM LIABILITIES (at par of exchange):

Funded debt in the hands of the public	\$ 30,833,600.00	
Advances from the Province of Ontario for capital purposes	5,497,903.65	
Purchase agreements	5,969.22	
		\$ 36,337,472.87

CURRENT LIABILITIES:

Power accounts—credit balances	\$ 2,398.95	
Consumers' deposits	1,611,586.80	
Debenture interest accrued	191,984.70	
Miscellaneous accruals	12,236.36	
		1,818,206.81

RESERVES:

Renewals	\$ 5,300,222.47	
Contingencies and obsolescence	3,401,620.74	
Miscellaneous	296,725.31	
		8,998,568.52

SINKING FUND RESERVES:

Represented by:

Funded debt and provincial advances retired through sinking funds	\$ 13,185,607.82	
Sinking fund investments	2,396,435.12	
		15,582,042.94
SURPLUS		224,084.56

\$ 62,960,375.70

Auditors' Report

We have made an examination of the balance sheet of the Northern Ontario Properties, held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario, as at October 31, 1946 and of the attached statements of operations and surplus for the year ended on that date. In connection therewith we reviewed the system of internal control and the accounting procedures of the Commission, and, without making a detailed audit of the transactions, have examined or tested accounting records of the Commission and other supporting evidence by methods and to the extent we deemed appropriate.

We report that in our opinion the foregoing balance sheet and related statements of operations and surplus (as more fully reported upon by us to the Lieutenant-Governor in Council) have been drawn up so as to exhibit a true and correct view of the state of the affairs of the Northern Ontario Properties operated by the Commission at October 31, 1946 and the results of their operation for the year ended on that date, according to the best of our information and the explanations given us and as shown by the books.

Toronto, Canada,
May 14, 1947.

CLARKSON, GORDON & CO.
Chartered Accountants.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

NORTHERN ONTARIO PROPERTIES

**Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario**

Statement of Operations for the year ended October 31, 1946

REVENUE:

Power sold to private companies and other customers \$6,096,699.60

COST OF OPERATION:

Power purchased	\$273,507.96	
Operating, maintenance and administrative expenses	2,127,683.38	
Interest (including interest on sinking fund, renewals, and other reserves and after deducting interest earned on investments)	1,966,735.53	
Provision for renewals	484,696.78	
Provision for contingencies	nil	
Provision for sinking fund	1,559,352.05	
		<u>6,411,975.70</u>

NET LOSS ON OPERATIONS FOR YEAR \$315,276.10

Statement of Surplus for the year ended October 31, 1946

Balance at credit November 1, 1945	\$577,316.24
Adjustment of reserves provided in 1945	37,955.58
	<u>\$539,360.66</u>
Less:	
Net loss on operations for year ended October 31, 1946	315,276.10
	<u>\$224,084.56</u>
BALANCE AT CREDIT OCTOBER 31, 1946	<u>\$224,084.56</u>

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in Trust for the Province of Ontario

FIXED ASSETS—October 31, 1946

Property	Under construction	In service		Total
		Non- depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
ABITIBI DISTRICT				
Power Plants:				
Abitibi river:				
Abitibi Canyon.....	5,720.40	5,530,862.63	13,448,189.21	18,984,772.24
Frederick House dam.....	29,142.55	124,513.86	731,385.05	885,041.46
Dasserat Lake diversion.....		4,220.89	34,471.80	38,692.69
Watabeag Lake Dam.....		6,983.63	64,565.68	71,549.31
	34,862.95	5,666,581.01	14,278,611.74	19,980,055.70
Transformer Stations.....	26,805.67	215,856.69	2,087,755.04	2,330,417.40
Transmission Lines.....	48,362.14	830,142.02	5,704,121.16	6,582,625.32
Local Systems.....	346.83		95,146.15	95,492.98
	110,377.59	6,712,579.72	22,165,634.09	28,988,591.40
TIMISKAMING DISTRICT				
Power Plants:				
Matabitchuan river:				
Matabitchuan.....		3,240.00	650,902.72	654,142.72
Storage dams.....			134,000.00	134,000.00
Montreal river:				
Upper Notch.....		4,860.00	1,378,172.00	1,383,032.00
Fountain Falls.....			349,751.00	349,751.00
Ragged Chute.....			976,000.00	976,000.00
Hound Chute.....	119.87	3,240.00	446,620.00	449,979.87
Indian Chute.....	3,094.53		409,800.00	412,894.53
Storage dams.....			165,000.00	165,000.00
Mattagami river:				
Sandy Falls.....			520,955.00	520,955.00
Wawaitin.....			764,212.00	764,212.00
Lower Sturgeon.....		53,250.00	775,333.00	828,583.00
Storage dams.....		1,944.00	161,056.00	163,000.00
Intangible.....		858,699.15		858,699.15
	3,214.40	925,233.15	6,731,801.72	7,660,249.27
Transformer Stations.....	9,496.35		1,208,621.59	1,218,117.94
Transmission Lines.....	29,226.20	290,360.00	1,957,911.60	2,277,497.80
Office and Service Buildings.....			153,967.79	153,967.79
Local Distribution Systems.....			1,369,102.06	1,369,102.06
	41,936.95	1,215,593.15	11,421,404.76	12,678,934.86

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in Trust for the Province of Ontario

FIXED ASSETS—October 31, 1946

Property	Under Construction	In service		Total
		Non- depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
SUDBURY DISTRICT				
Power Plants:				
Wanapitei river:				
Coniston	3,819.42	13,597.20	732,799.66	750,216.28
McVitties	1,106.97	13,323.00	387,797.21	402,227.18
Stinson	621.99	33,000.00	656,001.78	689,623.77
Storage dam		25.00	194,870.00	194,895.00
Intangible		830,514.53		830,514.53
Sturgeon river:				
Crystal Falls and Storage dams		44,531.27	938,469.02	983,000.29
	5,548.38	934,991.00	2,909,937.67	3,850,477.05
Transformer Stations	281.83		76,779.39	77,061.22
Transmission Lines	128.20		458,316.36	458,444.56
	5,958.41	934,991.00	3,445,033.42	4,385,982.83
NIPISSING DISTRICT				
Power Plants:				
South river:				
Nipissing		11,089.60	242,559.52	253,649.12
Bingham Chute		12,105.05	244,854.55	256,959.60
Elliot Chute		119,307.09	334,834.33	454,141.42
Storage dams			76,122.70	76,122.70
Miscellaneous			2,678.64	2,678.64
Intangible		69,478.34		69,478.34
		211,980.08	901,049.74	1,113,029.82
Transformer Stations	686.27		64,989.79	65,676.06
Transmission Lines	747.84		260,898.24	261,646.08
Local Systems		2,219.65	36,524.27	38,743.92
	1,434.11	214,199.73	1,263,462.04	1,479,095.88
PATRICIA DISTRICT				
Power Plants:				
English river:				
Ear Falls	73,408.18	566.75	1,813,719.46	1,887,694.39
Albany river:				
Rat Rapids	59,170.60	39,297.44	556,023.96	654,492.00
	132,578.78	39,864.19	2,369,743.42	2,542,186.39
Transformer Stations	5,325.11		183,427.17	188,752.28
Transmission Lines	250,770.06		1,847,787.81	2,098,557.87
Local System	3,383.49		52,802.51	56,186.00
	392,057.44	39,864.19	4,453,760.91	4,885,682.54

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in Trust for the Province of Ontario

FIXED ASSETS—October 31, 1946

Property	Under Construction	In service		Total
		Non- depreciable	Depreciable	
RAINY RIVER DISTRICT	\$ c.	\$ c.	\$ c.	\$ c.
Transformer Stations.....	115.73		148,546.21	148,661.94
Transmission Lines.....	2,211.54	349,563.46	1,009,636.70	1,361,411.70
Local System.....			32,267.57	32,267.57
	2,327.27	349,563.46	1,190,450.48	1,542,341.21
NORTHERN ONTARIO PROPERTIES				
RURAL POWER DISTRICT				
Transformer Stations.....			10,820.23	10,820.23
H-E.P.C. investment.....	62,835.52		600,214.42	663,049.94
Government grants.....	62,835.51		526,074.40	588,909.91
	125,671.03		1,137,109.05	1,262,780.08

FIXED ASSETS—Summary, October 31, 1946

Property	Under Construction	In service		Total
		Non- depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
Abitibi district.....	110,377.59	6,712,579.72	22,165,634.09	28,988,591.40
Timiskaming district.....	41,936.95	1,215,593.15	11,421,404.76	12,678,934.86
Sudbury district.....	5,958.41	934,991.00	3,445,033.42	4,385,982.83
Nipissing district.....	1,434.11	214,199.73	1,263,462.04	1,479,095.88
Patricia district.....	392,057.44	39,864.19	4,453,760.91	4,885,682.54
Rainy River district.....	2,327.27	349,563.46	1,190,450.48	1,542,341.21
Rural power district.....	125,671.03		1,137,109.05	1,262,780.08
	679,762.80	9,466,791.25	45,076,854.75	55,223,408.80
Less:				
Grants-in-aid of construction: Province of Ontario for rural power district..				588,909.91
				54,634,498.89

**NORTHERN ONTARIO
CHANGES IN FIXED ASSETS—**

Class of asset	Balance at beginning of year	Expenditure during year
POWER PLANTS:	\$ c.	\$ c.
Abitibi district.....	19,894,966.01	86,499.69
Timiskaming district.....	8,329,892.57	5,073.33
Sudbury district.....	3,846,859.42	3,736.63
Nipissing district.....	1,110,056.79	3,731.99
Patricia district.....	2,409,822.34	132,578.78
	35,591,597.13	231,620.42
TRANSFORMER STATIONS:		
Abitibi district.....	2,292,456.78	39,077.10
Timiskaming district.....	1,180,075.15	13,359.15
Sudbury district.....	77,703.38	627.83
Nipissing district.....	52,775.61	13,211.90
Patricia district.....	172,054.65	17,019.12
Rainy River district.....	147,415.56	881.26
	3,922,481.13	84,176.36
TRANSMISSION LINES:		
Abitibi district.....	6,500,252.32	83,861.12
Timiskaming district.....	2,200,751.87	69,802.81
Sudbury district.....	459,180.39	130.24
Nipissing district.....	213,111.42	72,290.81
Patricia district.....	1,806,916.78	291,641.09
Rainy River district.....	1,360,316.08	1,725.62
	12,540,528.86	519,451.69
LOCAL SYSTEMS:		
Abitibi district.....	91,967.77	3,525.21
Timiskaming district.....	697,238.35	39,679.50
Nipissing district.....	37,490.10	1,253.82
Patricia district.....	50,680.33	5,505.67
Rainy River district.....	31,905.24	362.33
	909,281.79	50,326.53
OFFICE AND SERVICE BUILDINGS:		
Timiskaming district.....	152,841.06	3,126.73
RURAL POWER DISTRICT:		
Transformer station.....	10,820.23	.....
H-E.P.C. investment.....	526,221.59	132,189.37
Government grants.....	453,247.92	131,023.02
	990,289.74	263,212.39
Less: Grants in aid of construction:	54,107,019.71	1,151,914.12
Province of Ontario for rural power district..	453,247.92	135,661.99
	53,653,771.79	1,016,252.13

* Includes revision of book values of assets acquired from Northern Ontario Power Company in 1945.

PROPERTIES

During Year Ended October 31, 1946

*Adjustments	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves and operations	
\$ c.	\$ c.	\$ c.	\$ c.
.....	200.00	1,210.00	19,980,055.70
666,740.64	7,975.99	.....	7,660,249.27
.....	.....	119.00	3,850,477.05
600.00	12.57	146.39	1,113,029.82
212.00	.....	2.73	2,542,186.39
667,552.64	8,188.56	1,478.12	35,145,998.23
.....	.....	1,116.48	2,330,417.40
24,880.64	7.00	190.00	1,218,117.94
32.00	643.54	594.45	77,061.22
600.00	.....	911.45	65,676.06
244.00	.....	565.49	188,752.28
630.00	.....	264.88	148,661.94
26,322.64	650.54	3,642.75	4,028,686.84
.....
4,524.00	59.81	5,952.31	6,582,625.32
7,024.00	80.88	.....	2,277,497.80
.....	.....	866.07	458,444.56
9,486.00	175.65	14,094.50	261,646.08
.....	.....	.....	2,098,557.87
630.00	.....	.....	1,361,411.70
1,432.00	316.34	20,912.88	13,040,183.33
.....
632,312.00	69.79	58.00	95,492.98
.....	.....	.....	1,369,102.06
.....	.....	.....	38,743.92
.....	.....	.....	56,186.00
.....	.....	.....	32,267.57
632,312.00	69.79	58.00	1,591,792.53
.....
2,000.00	.....	.....	153,967.79
.....
.....	.....	.....	10,820.23
4,743.00	6.52	97.50	663,049.94
4,743.00	6.53	97.50	588,909.91
9,486.00	13.05	195.00	1,262,780.08
.....	9,238.28	26,286.75	55,223,408.80
.....	.....	.....	588,909.91
.....	9,238.28	26,286.75	54,634,498.89
.....
.....	Renewals.....	5,700.25	.....
.....	Contingencies.....	20,285.73	.....
.....	Operation.....	300.77	.....
.....	.....	26,286.75	.....

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

Renewals Reserve—October 31, 1946

Balance at November 1, 1945.....		\$4,624,236.40
Adjustment of provision for the year 1945.....		12,208.30
		<u>\$4,636,444.70</u>
Provision in the year.....	\$484,696.78	
Adjustment in respect of equipment transferred during the year.....	2,009.07	
Interest at 4% on reserve balance.....	185,457.79	672,163.64
		<u>\$5,308,608.34</u>
Less:		
Expenditures in the year for renewals.....	\$2,685.62	
Amount withdrawn in respect of assets removed from service, etc.....	5,700.25	8,385.87
		<u>Balance at October 31, 1946.....</u>
		<u><u>\$5,300,222.47</u></u>

Contingencies and Obsolescence Reserve—October 31, 1946

Balance at November 1, 1945.....		\$3,315,100.61
Adjustment of provision for the year 1945.....		6,252.02
		<u>\$3,321,352.63</u>
Interest at 4% on reserve balance.....		134,884.16
		<u>\$3,456,236.79</u>
Less:		
Contingencies met with during the year.....	\$34,330.32	
Excess of fixed asset retirements over accumulated renewals provision.....	20,285.73	54,616.05
		<u>Balance at October 31, 1946.....</u>
		<u><u>\$3,401,620.74</u></u>

Sinking Fund Reserve—October 31, 1946

Balance at November 1, 1945.....		\$13,480,355.00
Adjustment of provision for the year 1945.....		19,495.26
		<u>\$13,499,850.26</u>
Provision in the year.....	\$1,559,352.05	
Interest at 4% on reserve balance.....	522,840.63	2,082,192.68
		<u>Balance at October 31, 1946.....</u>
		<u><u>\$15,582,042.94</u></u>

THE HAMILTON STREET RAILWAY COMPANY

**(A wholly-owned Subsidiary of The Hydro-Electric Power Commission
of Ontario—Southern Ontario System)**

FINANCIAL ACCOUNTS

For the period November 1, 1945 to September 15, 1946

Operating Statement

Note.— For statement respecting sale of shares of this Company see page xxii of introduction to this Report.

THE HAMILTON STREET RAILWAY COMPANY

(A wholly-owned subsidiary of the Hydro-Electric Power Commission
of Ontario—Southern Ontario System)

Statement of Operations for the Period November 1, 1945 to September 15, 1946

REVENUES:

Transportation.....	\$2,135,483.12
Other operations.....	18,003.86

\$2,153,486.98

EXPENSES:

Maintenance of way and structures.....	\$69,382.22
Maintenance of equipment.....	280,954.28
Electric power and motor fuel.....	192,083.83
Transportation expenses.....	495,047.30
General and miscellaneous expenses.....	162,040.76
Taxes (municipal and franchise).....	103,844.09

\$1,303,352.48

Provision for depreciation of buses.....	47,449.50
--	-----------

\$1,350,801.98

NET REVENUE FOR THE PERIOD NOVEMBER 1, 1945 TO SEPTEMBER 15, 1946—
before providing for depreciation on properties and equipment other than
buses.....

\$802,685.00

Statement of Surplus for the Period November 1, 1945 to September 15, 1946

Balance at credit November 1, 1945.....	\$53,443.06
Net revenue for period November 1, 1945 to September 15, 1946.....	802,685.00
Transferred from Insurance and Miscellaneous reserves no longer required.....	143,617.78

\$999,745.84

Less:

Dividends paid to the Hydro-Electric Power Commission of
Ontario prior to the sale by the Commission, by tender,
of all of the company's shares on September 16, 1946,
allocated in the Commission's accounts as follows:

Ordinary dividend (equal to interest for the period on
the Commission's investment in the railway)..... \$78,993.52

Special dividend to distribute certain current assets of
the company as provided by the terms and condi-
tions of sale..... 697,620.96

\$776,614.48

Balance at the credit of surplus account of The Hamilton Street
Railway Company as at the date of the sale of all of the
company's shares by the Commission on September 16, 1946

\$223,131.36

SECTION X

MUNICIPAL ACCOUNTS

and

Statistical Data Relating to Hydro-Electric Distribution Systems Operated by Individual Municipalities Served by The Hydro-Electric Power Commission of Ontario

The Municipal Accounts section of this report presents in summary, and individually, the results of the operation of the local electrical utilities in municipalities owning their own distributing systems and operating with energy supplied by or through The Hydro-Electric Power Commission.

Financial statements prepared from the books of these Hydro utilities are submitted herein to show how each has operated during the past year, and its financial status at the present time. Other tables give useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the electrical utilities in all municipalities which have contracted with The Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with an accounting system designed by the Commission. During the year 1946 this standard method of accounting was installed in Bobcaygeon.

Periodical inspections are made of the books of all Hydro electrical utilities and local officials are assisted in the improvement of their office routine with a view of standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities much of the book-keeping for the electrical utilities is performed by representatives of the municipal accounting department of the Commission as a measure of economy. This arrangement insures the correct application of the standard accounting system, with resultant uniformity in classification of revenues and expenditures; secures true reflections of the actual operating results for the year, and greatly enhances the comparative values of the reports.

The first financial statement in this section presents consolidated balance sheets for the past eight years. Similar data for earlier years since 1913 were published in the Report for 1943. This consolidated statement combines

the balance sheets of all local municipal Hydro utilities receiving power under cost contracts. It is worth noting that the total plant value has increased from \$10,081,469.16 in 1913 to \$110,207,968.64 in 1946, and the total assets from \$11,907,826.86 to \$232,876,284.85. The liabilities have not increased in the same proportion as the assets, rising from \$10,468,351.79 to a maximum of \$52,685,316.86 in 1932, and receding to \$14,308,521.54 in 1946. The reasons for this are the regular fulfilment of debt retirement schedules under serial debenture provisions or by maturity of sinking funds, and also the fact that much of the cost of the increasing plant value has been financed out of reserves and surplus without increasing the capital liabilities of the respective utilities. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; being from 88.0 per cent in 1913 to 5.6 per cent in 1946. The equities in The Hydro-Electric Power Commission's systems automatically acquired through the inclusion of sinking funds as part of the cost of power are not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for the past eight years and combines the results from all local municipal Hydro utilities receiving power under cost contracts. After providing for every cost of operation and fixed charges, including the standard provision for depreciation, the combined operating reports show a net surplus of \$3,435,-910.73 for 1946. (See also diagrams in Foreword to Report.)

The five statements, "A" to "E", following the two consolidated reports show the financial status of each municipal utility and the results of operations, giving classified information respecting revenue, operating costs, number of consumers and consumption, cost of power to municipalities, power and lighting rates charged to consumers, etc. In statements "A" and "B", the municipalities are arranged alphabetically under each system; in statement "D" the municipalities are arranged in three groups—cities, towns and small municipalities; in statements "C" and "E" all municipalities are arranged alphabetically. (Statement "C" suspended, see below.)

Statement "A" presents the balance sheet of each electrical utility. The plant values are shown under the general subdivisions specified in the standard accounting system and the other items on the positive side of the ledger which are included in total assets are self-explanatory.

In conformity with a policy of service at cost to the customer, refunds by cash or credit are made during the year in many municipalities from surplus funds accrued to the credit of municipal services, such as street lighting, water works, sewage disposal, etc., and to individual customers. The total thus returned to customers during the year 1946 amounted in round figures to \$465,000.00.

The reserves for depreciation, and the acquired equity in The Hydro-Electric Power Commission's systems, are listed individually and totalled; and under the heading "surplus" are included not only the operating surplus but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The depreciation reserve now amounts to 36.7 per cent of the total depreciable plant, while the depreciation reserve and surplus combined have already reached the sum of \$130,541,067.00, being equal to 118.4 per cent of the total plant cost.

Statement "B" shows the detailed operating report for each municipal electrical utility. It gives annual revenues from the various classes of consumers; the items of expenditure which make up the total annual expenditure and the sums set aside for depreciation. The population served by each local utility and the number of consumers of each class are also shown.

The item "cost of power supplied by H-E.P.C." in this statement includes the debit or credit balances ascertained by the annual adjustment of the cost of power supplied to the municipalities by the Commission.*

Of the 304 municipal electrical utilities included in this statement, 278 received from consumers revenue sufficient to meet in full all operating expenses, interest, debt retirement instalments, and standard depreciation reserve allocation and to yield an aggregate net surplus of \$3,475,072.51 for the year; 23 were able to defray out of revenue all such charges except a portion of the standard depreciation allocation aggregating \$38,233.32, in the case of 3 utilities the revenue was less than the total operating expenses, interest and debt retirement instalments by \$247.10.

Statement "C". Conditions respecting street lighting were not back to normal throughout 1946, the statement is therefore again omitted in this year's Report.

Statement "D" presents statistics relating to the supply of electrical energy to consumers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of consumers and the average horsepower supplied by the municipal utility.† For further reference to this informative statement, consult the special introduction to it on page 320.

Statement "E" presents the cost per horsepower of the power provided for and delivered to the municipalities by the Commission, and the local rates to consumers in force in the respective municipalities, during the year 1946, for domestic service, for commercial light service and for power service.

*In 1939 and 1940 a number of municipalities asked permission to take power cost adjustments into the following year, to facilitate the earlier closing of their books. On this account, from 1941 on, with few exceptions the Balance Sheet shows the previous year's equity in Hydro Commission properties; and the Cost of Power in the Operating Statement includes the previous year's adjustments.

†The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section IX.

CONSOLIDATED

Year.....	1939	1940	1941
Number of municipalities included.....	293	295	296
ASSETS	\$ c.	\$ c.	\$ c.
Lands and buildings.....	11,030,623.50	11,218,258.69	11,488,173.96
Substation equipment.....	23,780,655.18	24,282,151.78	24,896,262.26
Distribution system—overhead.....	23,925,362.60	24,653,458.44	25,228,363.52
Distribution system—underground.....	6,202,371.87	6,214,957.69	6,391,399.25
Line transformers.....	10,855,346.75	11,030,643.29	11,817,440.89
Meters.....	9,838,600.98	9,927,971.40	10,644,655.81
Street lighting equipment—regular.....	2,798,171.62	2,879,996.65	2,940,055.38
Street lighting equipment—ornamental.....	1,518,035.24	1,534,320.08	1,540,369.82
Miscellaneous construction expenses.....	4,147,280.84	4,341,259.94	4,366,893.41
Steam or hydraulic plant.....	498,650.81	498,575.87	445,118.58
Old plant.....	4,894,655.59	1,332,606.12	1,329,860.41
Total plant.....	99,489,754.98	97,914,199.95	101,088,593.29
Bank and cash balance.....	3,107,087.65	4,462,197.18	2,991,173.27
Securities and investments.....	4,850,531.80	5,315,855.49	8,368,139.57
Accounts receivable.....	4,774,816.58	4,715,848.86	4,116,252.29
Inventories.....	1,496,275.62	1,630,987.28	1,984,025.53
Sinking fund on local debentures.....	11,032,594.44	5,829,573.87	5,530,647.79
Equity in H-E.P.C. systems.....	48,615,296.94	52,457,676.76	52,458,225.18
Other assets.....	156,520.39	258,395.70	226,034.26
Total assets.....	173,522,878.40	172,584,735.09	176,763,091.18
LIABILITIES			
Debenture balance.....	27,962,685.51	20,636,363.20	17,805,415.36
Accounts payable.....	3,100,565.26	3,095,613.25	3,088,145.27
Bank overdraft.....	180,064.81	187,038.91	302,744.63
Other liabilities.....	2,998,174.20	3,004,624.22	2,987,132.70
Total liabilities.....	34,241,489.78	26,923,638.58	24,183,437.96
Reserves			
For equity in H-E.P.C. systems.....	48,615,296.94	52,457,676.76	52,458,225.18
For depreciation.....	24,046,526.92	25,733,628.33	27,795,985.72
Other reserves.....	3,090,471.34	3,326,591.65	3,592,384.90
Total reserves.....	75,752,295.20	81,517,896.74	83,846,595.80
SURPLUS			
Debentures paid.....	32,866,660.82	37,245,922.84	39,943,340.75
Local sinking fund.....	11,032,594.44	5,829,573.87	5,530,647.79
Operating surplus.....	19,629,838.16	21,067,703.06	23,259,068.88
Total surplus.....	63,529,093.42	64,143,199.77	68,733,057.42
Total liabilities, reserves and surplus.....	173,522,878.40	172,584,735.09	176,763,091.18
Percentage of net debt to total assets.....	19.3	17.4	14.6

BALANCE SHEET

1942	1943	1944	1945	1946
297	298	298	304	304
<div>\$c.</div> <div>11,546,286.55</div> <div>25,359,352.47</div> <div>25,572,132.86</div> <div>6,446,133.75</div> <div>12,209,624.79</div> <div>10,938,305.73</div> <div>2,928,896.30</div> <div>1,543,717.00</div> <div>4,091,006.92</div> <div>422,172.72</div> <div>1,028,830.05</div>	<div>\$c.</div> <div>11,664,887.81</div> <div>25,392,202.96</div> <div>25,773,224.22</div> <div>6,451,393.47</div> <div>12,353,367.17</div> <div>11,117,612.15</div> <div>2,903,704.11</div> <div>1,542,294.82</div> <div>3,740,027.08</div> <div>397,576.71</div> <div>936,561.90</div>	<div>\$c.</div> <div>11,713,108.74</div> <div>25,805,344.10</div> <div>26,075,416.77</div> <div>6,385,742.19</div> <div>12,698,080.21</div> <div>11,339,479.64</div> <div>2,926,365.70</div> <div>1,542,819.42</div> <div>3,414,557.25</div> <div>368,022.38</div> <div>820,607.24</div>	<div>\$c.</div> <div>11,879,469.56</div> <div>26,201,620.92</div> <div>26,835,864.78</div> <div>6,539,797.63</div> <div>13,360,997.73</div> <div>11,742,720.68</div> <div>3,066,246.06</div> <div>1,551,628.63</div> <div>3,469,256.69</div> <div>1,005,980.83</div> <div>692,517.55</div>	<div>\$c.</div> <div>11,830,325.45</div> <div>26,778,943.63</div> <div>27,810,938.64</div> <div>6,848,694.50</div> <div>14,247,872.95</div> <div>12,325,105.86</div> <div>3,268,433.46</div> <div>1,555,698.39</div> <div>3,802,802.98</div> <div>1,080,730.83</div> <div>658,421.95</div>
102,086,459.14	102,272,852.40	103,089,543.64	106,346,101.06	110,207,968.64
<div>2,482,945.50</div> <div>12,592,455.09</div> <div>3,614,066.68</div> <div>2,047,430.38</div> <div>5,445,199.46</div> <div>57,080,491.77</div> <div>197,190.92</div>	<div>2,341,996.68</div> <div>17,037,057.29</div> <div>3,347,449.72</div> <div>1,750,799.42</div> <div>5,028,551.56</div> <div>62,031,673.13</div> <div>537,366.80</div>	<div>1,947,073.36</div> <div>21,245,620.67</div> <div>3,710,514.76</div> <div>1,622,866.57</div> <div>4,880,499.77</div> <div>69,486,548.01</div> <div>192,661.46</div>	<div>1,744,827.39</div> <div>27,530,379.33</div> <div>3,682,108.35</div> <div>1,735,925.21</div> <div>4,952,718.62</div> <div>75,002,351.38</div> <div>290,022.85</div>	<div>3,584,075.84</div> <div>27,152,189.81</div> <div>4,133,184.23</div> <div>2,193,231.80</div> <div>4,609,214.16</div> <div>80,670,336.85</div> <div>326,083.52</div>
185,546,238.94	194,347,747.00	206,175,328.24	221,284,434.19	232,876,284.85
<div>16,184,642.53</div> <div>2,399,404.91</div> <div>105,571.05</div> <div>2,806,844.10</div>	<div>13,657,032.51</div> <div>2,699,630.77</div> <div>118,834.40</div> <div>2,618,742.94</div>	<div>11,612,359.10</div> <div>1,701,420.70</div> <div>174,491.81</div> <div>2,584,979.26</div>	<div>10,612,595.02</div> <div>2,528,081.42</div> <div>429,585.64</div> <div>2,707,515.21</div>	<div>9,049,583.60</div> <div>2,267,268.71</div> <div>355,417.71</div> <div>2,636,251.52</div>
21,496,462.59	19,094,240.62	16,073,250.87	16,277,777.29	14,308,521.54
<div>57,080,491.77</div> <div>29,840,207.73</div> <div>4,907,609.88</div>	<div>62,031,673.13</div> <div>32,138,469.64</div> <div>5,449,398.96</div>	<div>69,486,548.01</div> <div>34,006,953.37</div> <div>6,308,596.82</div>	<div>75,002,351.38</div> <div>36,331,919.08</div> <div>6,979,074.47</div>	<div>80,670,336.85</div> <div>38,253,203.71</div> <div>7,356,359.46</div>
91,828,309.38	99,619,541.73	109,802,098.20	118,313,344.93	126,279,900.02
<div>41,183,741.27</div> <div>5,445,199.46</div> <div>25,592,526.24</div>	<div>43,552,091.22</div> <div>5,028,551.56</div> <div>27,053,321.87</div>	<div>45,475,788.84</div> <div>4,880,499.77</div> <div>29,943,690.56</div>	<div>47,340,018.06</div> <div>4,952,718.62</div> <div>34,400,575.29</div>	<div>48,935,858.04</div> <div>4,609,214.16</div> <div>38,742,791.09</div>
72,221,466.97	75,633,964.65	80,299,979.17	86,693,311.97	92,287,863.29
185,546,238.94	194,347,747.00	206,175,328.24	221,284,434.19	232,876,284.85
11.9	10.0	7.4	7.0	5.6

CONSOLIDATED

YEAR.....	1939	1940	1941
Number of municipalities included.....	293	295	296
EARNINGS	\$ c.	\$ c.	
Domestic service.....	13,038,748.37	13,705,710.79	14,287,828.19
Commercial light service.....	7,077,144.74	7,642,679.90	7,885,693.81
Commercial power service.....	10,957,719.66	12,458,439.08	14,591,053.03
Municipal power.....	1,760,977.25	1,741,235.23	1,832,379.38
Street lighting.....	1,831,090.33	1,842,443.63	1,880,560.01
Merchandise.....	28,874.86	56,818.83	58,695.51
Miscellaneous.....	595,235.49	577,959.98	526,771.53
Total earnings.....	35,289,790.70	38,025,287.44	41,062,981.46
EXPENSES			
Cost of power supplied by H-E.P.C....	21,855,595.20	23,756,863.14	26,017,260.84
Substation operation.....	516,987.25	544,234.10	552,820.54
Substation maintenance.....	377,013.25	322,375.73	316,677.27
Distribution system, operation and maintenance.....	943,859.59	930,055.53	993,886.44
Line transformer maintenance.....	95,577.72	101,617.16	114,304.18
Meter maintenance.....	386,145.71	372,562.74	409,252.72
Consumers' premises expenses.....	488,980.55	568,135.41	604,642.97
Street lighting, operation and maintenance.....	384,071.55	366,911.70	379,905.55
Promotion of business.....	317,467.64	293,022.17	262,910.03
Billing and collecting.....	1,008,065.66	1,020,648.93	1,074,173.90
General office, salaries and expenses....	966,550.98	960,065.70	1,053,367.83
Undistributed expense.....	463,456.65	555,414.26	480,317.80
Truck operation and maintenance.....	80,263.46	79,848.64	93,032.89
Interest.....	1,594,040.32	1,464,381.29	1,027,985.34
Sinking fund and principal payments on debentures.....	2,420,441.30	2,389,723.60	2,248,937.42
Total expenses.....	31,898,516.83	33,725,860.10	35,629,475.72
Surplus.....	3,391,273.87	4,299,427.34	5,433,505.74
Depreciation and other reserves.....	2,524,364.33	2,644,127.10	2,933,730.99
Surplus less depreciation.....	866,909.54	1,655,300.24	2,499,774.75

OPERATING REPORT

1942	1943	1944	1945	1946
297	298	298	304	304
14,874,937. 14	14,933,681. 48	15,371,752. 19	15,543,145. 28	\$ c. 16,852,308. 83
7,604,860. 27	6,713,348. 61	7,219,403. 43	8,150,923. 90	8,979,037. 16
15,433,320. 91	15,687,273. 31	16,222,143. 48	15,544,685. 89	15,707,154. 73
2,026,826. 92	2,031,027. 12	2,111,454. 22	2,134,062. 24	2,161,079. 81
1,820,216. 28	1,686,149. 29	1,729,320. 48	1,922,281. 13	1,975,024. 68
50,276. 58	31,300. 28	35,378. 31	65,590. 57	179,252. 65
680,825. 29	782,170. 04	897,433. 28	1,097,719. 02	1,210,440. 76
42,491,263. 39	41,864,950. 13	43,586,885. 39	44,457,808. 03	47,054,298. 62
26,459,900. 78	26,587,877. 32	26,937,460. 31	26,633,166. 70	29,131,997. 88
581,259. 02	612,227. 01	611,878. 05	654,305. 46	753,931. 65
361,643. 95	370,797. 74	419,983. 12	423,473. 57	444,276. 75
1,087,818. 81	1,143,720. 84	1,147,646. 14	1,243,381. 36	1,404,441. 08
133,888. 95	145,094. 88	145,701. 29	155,240. 82	168,429. 61
440,877. 18	443,307. 27	445,437. 44	470,203. 18	528,810. 47
513,565. 10	527,810. 36	513,953. 14	581,603. 20	699,773. 37
397,614. 93	380,405. 50	445,945. 93	487,565. 20	493,443. 23
193,692. 33	171,894. 14	156,566. 54	171,063. 89	183,606. 79
1,171,345. 63	1,226,185. 63	1,264,759. 35	1,305,542. 48	1,428,246. 45
1,067,535. 39	1,117,334. 29	1,139,174. 46	1,201,915. 79	1,319,972. 30
553,599. 71	510,448. 34	522,204. 17	640,831. 75	831,176. 06
99,379. 20	94,830. 33	104,222. 84	123,720. 21	147,458. 42
973,383. 83	844,161. 48	707,925. 20	710,300. 94	525,588. 16
2,006,148. 29	1,871,119. 81	1,564,537. 45	1,255,825. 57	1,239,108. 29
36,041,653. 10	36,047,214. 94	36,127,395. 43	36,058,140. 12	39,300,260. 51
6,449,610. 29	5,817,735. 19	7,459,489. 96	8,399,667. 91	7,764,038. 11
3,586,198. 82	3,867,107. 58	3,521,114. 82	3,953,728. 83	4,328,127. 38
2,863,411. 47	1,950,627. 61	3,938,375. 14	4,445,939. 08	3,435,910. 73

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig	Alexandria	Alliston
Population.....	1,976	P.V.	395	1,904	1,528
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,627.38			202.00	
Substation equipment.....	2,318.36				675.73
Distribution system—overhead....	28,947.92	10,728.28	7,970.21	29,090.66	33,892.96
Distribution system—underground.					
Line transformers.....	18,489.97	7,117.18	3,814.67	10,604.60	14,157.87
Meters.....	14,549.45	4,056.65	2,975.88	9,772.76	11,483.20
Street light equipment, regular....	2,631.85	1,073.49	457.58	2,251.57	1,962.51
Street light equipment, ornamental					
Miscellaneous construction expense	2,964.30	152.60	492.36	5,549.70	2,678.80
Steam or hydraulic plant.....					
Old plant.....				4,466.89	7,846.49
Total plant.....	71,529.23	23,128.20	15,710.70	61,938.18	72,697.56
Bank and cash balance.....	40.00	2,754.40	1,617.60	2,850.44	65.45
Securities and investments.....	20,000.00	14,000.00	9,500.00	33,000.00	13,500.00
Accounts receivable.....	1,756.49	135.91	787.11	3,241.27	293.16
Inventories.....	1,184.54				19.05
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	108,576.51	17,095.45	21,677.45	42,065.95	36,024.42
Other assets.....	1.04				
Total assets.....	203,087.81	57,113.96	49,292.86	143,095.84	122,599.64
LIABILITIES					
Debenture balance.....					2,300.82
Accounts payable.....	270.68	543.62	354.79	6.80	104.65
Bank overdraft.....	317.01				
Other liabilities.....	1,296.70		110.00	1,221.48	399.00
Total liabilities.....	1,884.39	543.62	464.79	1,228.28	2,804.47
RESERVES					
For equity in H-E.P.C. systems....	108,576.51	17,095.45	21,677.45	42,065.95	36,024.42
For depreciation.....	15,683.38	5,915.08	9,010.48	26,334.63	18,579.62
Other reserves.....	2,200.00	1,542.90		1,878.23	7,832.51
Total reserves.....	126,459.89	24,553.43	30,687.93	70,278.81	62,436.55
SURPLUS					
Debentures paid.....	14,500.00	8,072.65	6,883.38	48,133.84	37,699.18
Local sinking fund.....					
Operating surplus.....	60,243.53	23,944.26	11,256.76	23,454.91	19,659.44
Total surplus.....	74,743.53	32,016.91	18,140.14	71,588.75	57,358.62
Total liabilities, reserves and surplus.	203,087.81	57,113.96	49,292.86	143,095.84	122,599.64
Percentage of net debt to total assets.	2.0	1.3	1.7	1.2	3.2

“A”

Hydro Municipalities as at December 31, 1946

Almonte	Alvinston	Amherstburg	Ancaster Twp. V.A.	Apple Hill P.V.	Arkona	Arnprior
2,250	611	2,826			374	4,010
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
10,037.25	1,933.56		243.56	169.06		8,000.00
23,364.86						
34,749.15	17,091.34	44,351.24	24,411.47	3,009.09	10,339.49	30,219.29
17,740.80	3,801.25	27,408.47	16,992.90	1,723.37	3,521.48	16,363.06
12,803.91	4,383.83	18,801.51	7,711.47	1,439.24	2,515.05	16,978.33
6,179.04	1,301.74	2,132.57	1,547.72	421.12	750.31	6,119.35
		5,598.72				
1,588.80	975.66	4,836.05	2,773.66	218.18	240.35	97.19
105,153.80				709.55	1,030.30	
211,617.61	29,487.38	103,128.56	53,680.78	7,689.61	18,396.98	77,777.22
2,199.16	454.00	2,230.08	713.14	2,076.97	370.13	25.00
8,450.00	11,000.00	37,850.00	6,000.00	4,000.00	4,000.00	39,000.00
2,160.25	320.69	1,162.05	1,400.59	254.83	28.61	588.84
3,939.17			456.00			6,172.67
576.46	21,585.92	82,598.43	26,821.13	4,844.51	9,298.81	17,413.36
		20.83	34.89			
228,942.65	62,847.99	226,989.95	89,106.53	18,865.92	32,094.53	140,977.09
28,024.10			3,301.06			13,731.84
10,106.57		297.96	4,770.24	87.24		4,645.35
						6,641.74
439.52	55.00	6,898.64	273.35		28.00	2,061.48
38,624.19	55.00	7,196.60	8,344.65	87.24	28.00	27,080.41
576.46	21,585.92	82,598.43	26,821.13	4,844.51	9,298.81	17,413.36
41,698.97	12,261.65	33,593.09	13,916.24	3,449.31	5,414.27	9,747.24
	59.50	10,513.56	38.69			10,000.00
42,275.43	33,907.07	126,705.08	40,776.06	8,293.82	14,713.08	37,160.60
43,975.90	23,529.24	32,053.60	10,809.22	6,000.00	13,112.83	41,737.29
104,067.13	5,356.68	61,034.67	29,176.60	4,484.86	4,240.62	34,998.79
148,043.03	28,885.92	93,088.27	39,985.82	10,484.86	17,353.45	76,736.08
228,942.65	62,847.99	226,989.95	89,106.53	18,865.92	32,094.53	140,977.09
18.3	0.1	1.2	13.3	0.6	0.1	21.9

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Arthur	Athens	Aurora	Aylmer	Ayr
Population.....	922	714	3,004	2,475	718
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			1,000.00	11,147.41	125.00
Substation equipment.....			1,491.05		
Distribution system—overhead....	18,768.67	14,510.07	28,883.18	33,549.48	13,266.05
Distribution system—underground..					
Line transformers.....	5,833.24	2,800.57	27,390.26	27,995.47	7,483.72
Meters.....	5,154.09	3,524.75	17,104.23	17,022.17	4,792.23
Street light equipment, regular....	2,037.78	698.90	6,320.60	5,716.84	1,162.14
Street light equipment, ornamental					
Miscellaneous construction expense	439.31	1,153.85	591.25	1,763.21	822.49
Steam or hydraulic plant.....					
Old plant.....	1,086.62			6,469.47	4,002.53
Total plant.....	33,319.71	22,688.14	82,780.57	103,664.05	31,654.16
Bank and cash balance.....		503.74	30.00	276.98	1,132.85
Securities and investments.....	9,500.00	7,500.00	12,000.00	12,000.00	3,500.00
Accounts receivable.....	59.58	102.28	992.54	2,252.01	532.66
Inventories.....				168.72	
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	27,694.82	9,784.72	9,302.04	66,526.27	22,255.15
Other assets.....					
Total assets.....	70,574.11	40,578.88	105,105.15	184,888.03	59,074.82
LIABILITIES					
Debenture balance.....	3,326.19	2,162.94		1,586.69	1,092.60
Accounts payable.....	109.29	122.96	81.57	662.73	91.03
Bank overdraft.....	710.14		193.21		
Other liabilities.....	395.00		710.00	954.66	33.64
Total liabilities.....	4,540.62	2,285.90	984.78	3,204.08	1,217.27
RESERVES					
For equity in H-E.P.C. systems....	27,694.82	9,784.72	9,302.04	66,526.27	22,255.15
For depreciation.....	22,073.47	7,294.83	36,068.31	26,071.60	8,841.78
Other reserves.....		206.06		9,578.99	517.29
Total reserves.....	49,768.29	17,285.61	45,370.35	102,176.86	31,614.22
SURPLUS					
Debentures paid.....	21,673.81	11,837.06		37,115.23	16,410.78
Local sinking fund.....					
Operating surplus.....	*5,408.61	9,170.31	58,750.02	42,391.86	9,832.55
Total surplus.....	16,265.20	21,007.37	58,750.02	79,507.09	26,243.33
Total liabilities, reserves and surplus.	70,574.11	40,578.88	105,105.15	184,888.03	59,074.82
Percentage of net debt to total assets.	11.0	7.4	1.0	2.7	3.3

* Deficit

“A”—Continued

Hydro Municipalities as at December 31, 1946

Baden	Barrie	Bath	Beachville	Beamsville	Beaverton	Beeton
P.V.	10,583	323	P.V.	1,338	842	507
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
660.64	17,696.57		176.13		499.50	
	18,989.07					428.50
10,388.39	83,548.34	7,913.21	16,094.84	19,134.75	24,945.95	12,115.65
	66,582.89					
7,122.60	57,455.10	1,694.15	4,841.14	12,583.23	10,246.04	1,994.14
4,867.25	64,367.00	1,276.34	4,087.94	8,906.36	7,601.83	2,761.61
748.17	13,470.36	635.44	444.23	2,892.74	1,339.09	1,272.52
22.38	1,600.00	727.38	83.79		2,160.66	1,413.84
23,809.43	323,709.33	12,246.52	25,728.07	43,517.08	46,793.07	19,986.26
2,191.83		602.42	3,897.63	2,328.98	1,502.75	912.24
6,500.00	105,600.00		17,500.00	16,000.00	7,200.00	11,500.00
1,395.61	4,290.91	103.90	1,592.13	190.21	62.73	33.68
108.04	7,922.57					
47,251.55	239,496.99	3,368.02	61,477.02	10,669.19	29,487.82	22,249.52
	77,375.52					
81,256.46	758,395.32	16,320.86	110,194.85	72,705.46	85,046.37	54,681.70
		3,135.18				1,814.36
	755.59		240.36	437.37	261.35	171.14
	23,979.40					
10.00	5,639.54	130.00		801.70	682.67	115.00
10.00	30,374.53	3,265.18	240.36	1,239.07	944.02	2,100.50
47,251.55	239,496.99	3,368.02	61,477.02	10,669.19	29,487.82	22,249.52
4,887.17	155,883.66	3,226.67	11,027.16	11,196.25	20,900.94	11,818.57
1,000.00	39,169.82				400.00	1,590.68
53,138.72	434,550.47	6,594.69	72,504.18	21,865.44	50,788.76	35,658.77
5,000.00	65,365.68	4,364.82	5,536.66	37,500.00	15,000.00	13,185.64
23,107.74	228,104.64	2,096.17	31,913.65	12,100.95	18,313.59	3,736.79
28,107.74	293,470.32	6,460.99	37,450.31	49,600.95	33,313.59	16,922.43
81,256.46	758,395.32	16,320.86	110,194.85	72,705.46	85,046.37	54,681.70
0.0	5.9	25.1	0.5	2.0	1.7	6.5

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Belle River	Belleville	Blenheim	Bloomfield	Blyth
Population.....	845	15,967	1,873	624	632
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	204.20	44,154.10	14,465.35		
Substation equipment.....		90,442.46	1,264.64		
Distribution system—overhead.....	23,258.56	144,565.88	40,022.28	11,308.84	12,244.91
Distribution system—underground.....					
Line transformers.....	8,599.18	55,798.05	20,481.52	2,125.82	3,696.51
Meters.....	6,455.23	79,648.68	14,813.09	3,556.45	3,420.75
Street light equipment, regular.....	1,851.52	24,309.93	3,962.35	1,040.99	1,554.68
Street light equipment, ornamental.....			1,482.97		
Miscellaneous construction expense.....	270.62	17,998.88	907.66	1,403.42	254.59
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	40,639.31	456,917.98	97,399.86	19,435.52	21,171.44
Bank and cash balance.....	526.83	15,064.87	25.00	2,181.90	637.37
Securities and investments.....	3,000.00	105,000.00	4,000.00	12,100.00	10,000.00
Accounts receivable.....	232.51	18,248.04	3,698.32	14.55	401.07
Inventories.....		16,061.06	884.82		
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	16,082.00	281,704.20	55,791.56	9,620.90	14,873.86
Other assets.....	15.50				
Total assets.....	60,496.15	892,996.15	161,799.56	43,352.87	47,083.74
LIABILITIES					
Debenture balance.....				1,065.56	
Accounts payable.....	219.06		5,624.22	60.44	1,344.90
Bank overdraft.....			453.75		
Other liabilities.....	200.00	13,224.75	1,842.97	141.00	198.20
Total liabilities.....	419.06	13,224.75	7,920.94	1,267.00	1,543.10
RESERVES					
For equity in H-E.P.C. systems.....	16,082.00	281,704.20	55,791.56	9,620.90	14,873.86
For depreciation.....	12,536.16	98,415.21	28,748.50	8,927.16	8,417.06
Other reserves.....	1,100.00	18,102.91	7,251.31		
Total reserves.....	29,718.16	398,222.32	91,791.37	18,548.06	23,290.92
SURPLUS					
Debentures paid.....	8,500.00	176,000.00	14,000.00	10,134.44	16,032.52
Local sinking fund.....					
Operating surplus.....	21,858.93	305,549.08	48,087.25	13,403.37	6,217.20
Total surplus.....	30,358.93	481,549.08	62,087.25	23,537.81	22,249.72
Total liabilities, reserves and surplus.....	60,496.15	892,996.15	161,799.56	43,352.87	47,083.74
Percentage of net debt to total assets.....	0.9	2.1	6.2	3.8	4.8

"A"—Continued

Hydro Municipalities as at December 31, 1946

Bobcaygeon 977	Bolton 621	Bothwell 574	Bowmanville 3,847	Bradford 1,075	Braeside 405	Brampton 6,157
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
740.00			35,685.49			6,175.76
			894.47	388.50		35,006.39
26,780.59	12,240.97	8,157.91	52,223.04	27,161.32	3,294.00	59,735.08
7,359.50	7,196.65	3,629.58	15,191.69	10,840.65	1,661.85	48,300.72
7,657.77	4,767.52	4,160.91	25,780.41	8,138.33	1,716.46	37,594.68
4,917.96	887.89	4,383.40	8,577.98	842.68	62.94	12,334.99
		1,131.22				
320.00	1,349.56	826.63	5,171.02	2,138.48		4,365.60
75,000.00	1,554.60					
122,775.82	27,997.19	22,289.65	143,524.10	49,509.96	6,735.25	203,513.22
	1,504.53	917.93	22,219.98	546.18	742.72	1,365.14
	12,000.00	13,000.00	100,000.00	7,800.00		61,500.00
443.44	77.74	39.89	5,482.01	461.33	1,245.96	315.83
2,331.62			7,601.00			182.59
	25,449.49	24,100.93	105,562.03	26,526.94	424.08	252,620.68
						62.12
125,550.88	67,028.95	60,348.40	384,389.12	84,844.41	9,148.01	519,559.58
44,887.10				2,650.83	5,588.94	
459.29	78.72	205.59	497.87	30.88	675.14	548.42
279.52						
	176.89	1,242.17	1,833.32	726.81	115.00	1,790.00
45,625.91	255.61	1,447.76	2,331.19	3,408.52	6,379.08	2,338.42
	25,449.49	24,100.93	105,562.03	26,526.94	424.08	252,620.68
31,596.26	10,067.93	10,457.43	27,015.65	16,586.49	253.00	90,077.08
		15.13		2,629.88		25,150.00
31,596.26	35,517.42	34,573.49	132,577.68	45,743.31	677.08	367,847.76
45,112.90	12,500.00	5,534.19	71,000.00	22,549.17	411.06	69,050.64
3,215.81	18,755.92	18,792.96	178,480.25	13,143.41	1,680.79	80,322.76
48,328.71	31,255.92	24,327.15	249,480.25	35,692.58	2,091.85	149,373.40
125,550.88	67,028.95	60,348.40	384,389.12	84,844.41	9,148.01	519,559.58
36.3	0.6	1.3	0.8	5.8	73.1	0.9

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Brantford	Brantford Twp. V.A.	Brechin	Brigdeport	Brigden
Population.....	34,267		P.V.	P.V.	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	115,895.50	538.06			1,482.03
Substation equipment.....	271,065.03	17,344.90			
Distribution system—overhead...	259,902.55	114,399.38	2,135.59	11,024.26	9,364.48
Distribution system—underground.					
Line transformers.....	232,980.33	35,709.21	1,495.73	4,294.28	3,818.17
Meters.....	176,591.03	32,797.28	849.42	3,903.36	2,746.84
Street light equipment, regular...	31,601.17	8,434.36	248.55	1,737.82	509.23
Street light equipment, ornamental	37,500.00				
Miscellaneous construction expense	19,981.24	9,813.16	546.92	617.14	1,023.74
Steam or hydraulic plant.....					
Old plant.....	32,400.00				
Total plant.....	1,177,916.85	219,036.35	5,276.21	21,576.86	18,944.49
Bank and cash balance.....	572.92	238.77	2,968.55	931.39	1,156.70
Securities and investments.....	228,500.00	3,000.00	500.00	6,000.00	7,800.00
Accounts receivable.....	23,951.65	931.97	152.70	221.95	33.06
Inventories.....	29,936.85	4,643.54			
Sinking fund on local debentures...					
Equity in H-E.P.C. systems.....	1,397,841.42	56,942.63	10,492.16	10,167.76	16,688.68
Other assets.....	81.33				
Total assets.....	2,858,801.02	284,793.26	19,389.62	38,897.96	44,622.93
LIABILITIES					
Debenture balance.....		57,878.34	377.46	1,146.32	
Accounts payable.....	5,001.30	433.88	292.18	288.06	
Bank overdraft.....		9,679.13			
Other liabilities.....	65,478.85	1,809.40	52.85	260.00	5.00
Total liabilities.....	70,480.15	69,800.75	722.49	1,694.38	5.00
RESERVES					
For equity in H-E.P.C. systems...	1,397,841.42	56,942.63	10,492.16	10,167.76	16,688.68
For depreciation.....	501,041.68	50,726.28	2,576.69	8,935.14	7,121.07
Other reserves.....	47,763.48	104.82	8.49		97.24
Total reserves.....	1,946,646.58	107,773.73	13,077.34	19,102.90	23,906.99
SURPLUS					
Debentures paid.....	530,000.00	59,247.32	2,833.46	11,221.71	8,000.00
Local sinking fund.....					
Operating surplus.....	311,674.29	47,971.46	2,756.33	6,878.97	12,710.94
Total surplus.....	841,674.29	107,218.78	5,589.79	18,100.68	20,710.94
Total liabilities, reserves and surplus.	2,858,801.02	284,793.26	19,389.62	38,897.96	44,622.93
Percentage of net debt to total assets.	2.3	30.6	8.1	5.9	0.0

“A”—Continued

Hydro Municipalities as at December 31, 1946

Brighton	Brockville	Brussels	Burford	Burgessville	Burlington	Caledonia
1,726	11,077	748	P.V.	P.V.	4,347	1,435
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
600.00	45,591.03	202.00	16,973.15	656.01		
	39,212.30		3,900.00			
21,698.32	105,586.42	15,650.85	10,281.19	3,968.02	93,413.65	22,767.11
9,100.72	61,459.30	5,715.44	8,025.98	3,355.19	36,527.08	11,982.65
10,434.29	58,580.32	5,482.74	4,980.47	1,648.78	24,494.08	10,488.41
1,305.85	28,421.12	1,707.79	481.50	261.02	5,231.27	2,487.78
475.23	1,811.29	1,537.56	75.49		7,483.77	1,158.00
43,614.41	340,661.78	30,094.38	24,046.63	9,233.01	188,023.00	49,539.96
25.00	73,278.16	2,617.95		422.35	18,818.64	50.00
19,000.00	70,000.00	14,000.00	7,000.00	2,800.00	7,500.00	1,200.00
4,019.98	2,339.95	268.76	168.24	169.12	1,416.53	86.56
5,249.83	8,142.93					2,456.12
18,879.41	262,853.15	19,248.10	20,463.41	7,627.36	3,111.84	33,809.83
15.18	326.75	0.25			*38,002.12	
90,803.81	757,602.72	66,229.44	51,678.28	20,251.84	256,872.13	87,142.47
1,779.14					143,985.70	
106.52	1,796.69		50.43	80.31	2,438.28	101.89
4,316.06			298.49			528.49
1,111.39	3,434.81	115.28	103.30	20.00	3,083.13	427.19
7,313.11	5,231.50	115.28	452.22	100.31	149,507.11	1,057.57
18,879.41	262,853.15	19,248.10	20,463.41	7,627.36	3,111.84	33,809.83
9,646.27	119,706.45	11,711.90	6,108.99	4,867.19	23,462.50	7,455.18
4,224.23	13,927.27		1,000.00		38,002.12	
32,749.91	396,486.87	30,960.00	27,572.40	12,494.55	64,576.46	41,265.01
23,220.86	226,657.54	21,000.00	9,000.00	3,500.00	16,514.30	4,624.00
27,519.93	129,226.81	14,154.16	14,653.66	4,156.98	26,274.26	40,195.89
50,740.79	355,884.35	35,154.16	23,653.66	7,656.98	42,788.56	44,819.89
90,803.81	757,602.72	66,229.44	51,678.28	20,251.84	256,872.13	87,142.47
10.2	1.1	0.2	1.4	0.8	69.3	2.0

* Not used in figuring net debt to total assets.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Campbell- ville P.V.	Canning- ton 812	Cardinal	Carleton Place 4,239	Cayuga 619
Population.....			1,639		
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				13,390.32	
Substation equipment.....				2,471.63	
Distribution system—overhead.....	3,156.30	13,004.78	14,335.50	48,841.63	22,101.93
Distribution system—underground.....					
Line transformers.....	1,323.46	6,547.17	4,132.27	16,659.28	7,897.42
Meters.....	1,113.65	5,569.75	4,294.37	22,451.79	5,549.51
Street light equipment, regular.....	335.61	1,138.47	967.01	6,919.74	1,461.17
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	6.82	467.58	531.61	2,878.64	208.00
Steam or hydraulic plant.....					
Old plant.....			3,474.80	5,289.19	
Total plant.....	5,935.84	26,727.75	27,735.56	118,902.22	37,218.03
Bank and cash balance.....	31.01	2,572.80	401.93	5,852.41	2,524.41
Securities and investments.....	4,100.00	7,000.00	5,500.00	47,500.00	5,200.00
Accounts receivable.....	27.31	379.95	273.09	1,181.80	146.43
Inventories.....		250.15		2,716.49	276.83
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	4,110.07	22,239.09	10,285.38	117,244.64	14,820.62
Other assets.....					2.14
Total assets.....	14,204.23	59,169.74	44,195.96	293,397.56	60,188.46
LIABILITIES					
Debenture balance.....			3,768.04	5,327.76	
Accounts payable.....	264.48	252.72	153.37	3,102.99	251.72
Bank overdraft.....					
Other liabilities.....		55.00	5.00	1,815.77	510.00
Total liabilities.....	264.48	307.72	3,926.41	10,246.52	761.72
RESERVES					
For equity in H-E.P.C. systems.....	4,110.07	22,239.09	10,285.38	117,244.64	14,820.62
For depreciation.....	2,077.71	15,610.85	4,769.56	28,528.69	10,971.78
Other reserves.....		564.05	51.52	878.98	160.46
Total reserves.....	6,187.78	38,413.99	15,106.46	146,652.31	25,952.86
SURPLUS					
Debentures paid.....	5,447.77	15,000.00	11,231.96	60,672.24	20,000.00
Local sinking fund.....					
Operating surplus.....	2,304.20	5,448.03	13,931.13	75,826.49	13,473.88
Total surplus.....	7,751.97	20,448.03	25,163.09	136,498.73	33,473.88
Total liabilities, reserves and surplus.....	14,204.23	59,169.74	44,195.96	293,397.56	60,188.46
Percentage of net debt to total assets.....	2.6	0.8	11.6	5.8	1.7

“A”—Continued

Hydro Municipalities as at December 31, 1946

Chatham	Chatsworth	Chesley	Chesterville	Chippawa	Clifford	Clinton
18,033	338	1,548	1,047	1,251	431	2,091
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
149,143.33	364.89	6,000.00	335.00	1,434.46		10,227.74
159,969.81		2,305.58				11,473.46
158,229.52	5,368.35	23,078.47	10,718.55	16,284.07	8,751.54	27,370.46
128,011.48						
115,735.21	2,734.92	12,412.99	4,641.14	9,695.29	2,025.61	14,238.05
88,486.56	2,464.31	8,894.88	5,604.48	6,731.42	2,841.88	13,329.66
24,580.26	573.12	2,609.33	605.76	3,186.51	1,014.93	5,705.10
35,426.10						
34,307.49	541.98	3,262.79	643.87	511.00	37.44	4,311.15
42,752.31						
936,642.07	12,047.57	58,564.04	22,548.80	37,842.75	14,671.40	86,655.62
50.00	267.09		3,602.19	2,158.32	402.15	4,698.21
135,000.00	2,000.00	13,000.00	14,000.00	11,500.00	5,000.00	25,500.00
32,086.89	6.46	123.07	669.81			1,319.33
14,200.55		438.19	496.12	210.57		3,555.62
591,214.08	6,875.44	53,235.09	37,050.07	25,177.07	11,133.14	68,950.53
1,540.00			12.62	1.89		
1,710,733.59	21,196.56	125,360.39	78,379.61	76,890.60	31,206.69	190,679.31
51,109.86					3,486.86	
	73.11	166.65	5.57		943.77	230.04
38,736.20		1,650.90				
43,691.70	42.23		69.00	980.00	5.00	711.45
133,537.76	115.34	1,817.55	74.57	980.00	4,435.63	941.49
591,214.08	6,875.44	53,235.09	37,050.07	25,177.07	11,133.14	68,950.53
229,468.00	4,820.51	21,030.47	9,785.43	9,713.69	5,049.42	28,527.43
113,586.48		3,500.00				10,940.94
934,268.56	11,695.95	77,765.56	46,835.50	34,890.76	16,182.56	108,418.90
318,890.14	5,400.00	27,500.00	6,500.00	13,350.00	4,513.14	44,500.00
324,037.13	3,985.27	18,277.28	24,969.54	27,669.84	6,075.36	36,818.92
642,927.27	9,385.27	45,777.28	31,469.54	41,019.84	10,588.50	81,318.92
1,710,733.59	21,196.56	125,360.39	78,379.61	76,890.60	31,206.69	190,679.31
9.1	0.8	2.5	0.2	1.9	22.1	0.8

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Cobden	Cobourg	Colborne	Coldwater	Colling- wood
Population.....	611	4,996	907	595	6,835
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		31,397.70		275.00	15,950.08
Substation equipment.....		1,668.35			24,954.35
Distribution system—overhead.....	5,943.97	90,512.56	11,284.81	10,253.57	66,312.89
Distribution system—underground.....					
Line transformers.....	3,609.48	32,305.62	2,175.11	7,128.00	31,511.00
Meters.....	2,292.45	35,216.67	4,446.59	4,207.89	33,278.55
Street light equipment, regular.....	499.69	14,806.70	2,389.54	846.22	3,379.95
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	87.93	3,507.88	2,530.20	132.53	656.20
Steam or hydraulic plant.....					
Old plant.....	2,853.85				
Total plant.....	15,287.37	209,415.48	22,826.25	22,843.21	176,043.02
Bank and cash balance.....	1,262.56	28,039.20	3,220.80	2,581.21	16,822.51
Securities and investments.....		45,000.00	5,500.00	3,500.00	40,000.00
Accounts receivable.....	88.37	5,402.36	2,105.55	1,729.41	594.43
Inventories.....		6,782.44	2,715.19		
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	3,362.84	81,172.87	7,788.55	20,969.77	203,439.59
Other assets.....		40.29	90.19		
Total assets.....	20,001.14	375,852.64	44,246.53	51,623.60	436,899.55
LIABILITIES					
Debenture balance.....	518.89	39,886.53	4,902.82		
Accounts payable.....	38.16			144.46	270.22
Bank overdraft.....					
Other liabilities.....	162.50	4,471.69	322.00	241.37	3,997.56
Total liabilities.....	719.55	44,358.22	5,224.82	385.83	4,267.78
RESERVES					
For equity in H-E.P.C. systems.....	3,362.84	81,172.87	7,788.55	20,969.77	203,439.59
For depreciation.....	255.49	57,356.37	5,158.90	13,925.12	83,129.33
Other reserves.....		1,500.00		80.00	118.90
Total reserves.....	3,618.33	140,029.24	12,947.45	34,974.89	286,687.82
SURPLUS					
Debentures paid.....	7,284.38	66,106.97	7,291.77	7,000.00	38,183.42
Local sinking fund.....					
Operating surplus.....	8,378.88	125,358.21	18,782.49	9,262.88	107,760.53
Total surplus.....	15,663.26	191,465.18	26,074.26	16,262.88	145,943.95
Total liabilities, reserves and surplus.....	20,001.14	375,852.64	44,246.53	51,623.60	436,899.55
Percentage of net debt to total assets.....	4.3	15.1	14.3	1.3	1.8

“A”—Continued

Hydro Municipalities as at December 31, 1946

Comber	Cookstown	Cottam	Courtright	Creemore	Dashwood	Delaware
P.V.	P.V.	P.V.	386	631	P.V.	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
62.00	70.00	475.63				
	392.95					
8,344.30	9,965.15	11,966.38	6,934.04	7,741.76	3,899.45	5,536.71
5,441.92	2,892.99	4,408.36	1,225.40	3,676.20	2,400.81	1,950.84
3,313.76	2,912.85	2,995.20	1,338.56	3,771.01	2,159.96	1,581.43
423.35	919.69	366.43	470.44	358.56	364.52	205.24
991.94	1,499.15	437.05	575.36	32.40	291.87	203.81
18,577.27	18,652.78	20,649.05	10,543.80	15,579.93	9,116.61	9,478.03
1,193.03	2,957.89		316.37	804.64	2,568.86	936.30
8,000.00	11,000.00	3,000.00	7,500.00	7,000.00	5,000.00	2,500.00
325.32	231.72	17.13	49.34	113.04	23.80	248.42
25,909.29	8,130.78	6,934.03	8,292.92	17,244.40	12,470.13	5,150.93
54,004.91	40,973.17	30,600.21	26,702.43	40,742.01	29,179.40	18,313.68
	681.83					
183.60	454.28	6.56	15.83	2.12	171.29	52.09
		257.63				
45.00	95.00	145.71	5.00	204.00		20.00
228.60	1,231.11	409.90	20.83	206.12	171.29	72.09
25,909.29	8,130.78	6,934.03	8,292.92	17,244.40	12,470.13	5,150.93
9,322.59	10,686.63	6,352.43	3,480.93	7,795.15	4,654.00	1,672.63
25.76		37.95	5.24	50.33		27.24
35,257.64	18,817.41	13,324.41	11,779.09	25,089.88	17,124.13	6,850.80
7,700.00	12,818.17	9,000.22	8,138.35	2,823.61	3,400.00	4,000.00
10,818.67	8,106.48	7,865.68	6,764.16	12,622.40	8,483.98	7,390.79
18,518.67	20,924.65	16,865.90	14,902.51	15,446.01	11,883.98	11,390.79
54,004.91	40,973.17	30,600.21	26,702.43	40,742.01	29,179.40	18,313.68
0.8	3.7	1.7	0.1	0.9	1.0	0.5

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Delhi	Deseronto	Dorchester	Drayton	Dresden
Population.....	2,063	1,271	P.V.	509	1,532
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	2,472.54	1,097.41			505.30
Substation equipment.....		161.18			523.00
Distribution system—overhead....	31,285.01	11,285.51	9,611.27	10,314.58	23,344.25
Distribution system—underground.					
Line transformers.....	18,620.02	5,178.56	3,579.56	5,288.35	11,454.92
Meters.....	13,862.41	6,695.09	2,998.68	4,050.11	10,198.72
Street light equipment, regular....	4,912.52	432.60	928.18	858.39	1,729.55
Street light equipment, ornamental					
Miscellaneous construction expense	3,364.21	1,284.72	328.41	418.32	4,321.24
Steam or hydraulic plant.....					
Old plant.....	28,518.74				
Total plant.....	103,035.45	26,135.07	17,446.10	20,929.75	52,076.98
Bank and cash balance.....	4,506.95	2,805.66		734.67	2,691.42
Securities and investments.....	23,500.00	6,000.00	6,400.00	6,000.00	9,500.00
Accounts receivable.....	9.00	814.42	788.58	69.04	860.98
Inventories.....	4,315.45	64.42	234.70	39.13	2,907.93
Sinking fund on local debentures					
Equity in H-E.P.C. systems.....	13,101.16	11,760.42	11,234.72	18,870.83	47,120.61
Other assets.....	.81				6.93
Total assets.....	148,468.82	47,579.99	36,104.10	46,643.42	115,164.85
LIABILITIES					
Debenture balance.....	61,032.71			656.09	
Accounts payable.....	30.00	386.14	38.24	1,372.13	2,235.63
Bank overdraft.....			453.63		
Other liabilities.....	1,706.79	333.01	24.22	20.00	318.00
Total liabilities.....	62,769.50	719.15	516.09	2,048.22	2,553.63
RESERVES					
For equity in H-E.P.C. systems....	13,101.16	11,760.42	11,234.72	18,870.83	47,120.61
For depreciation.....	15,815.48	3,031.44	5,169.31	10,574.24	7,399.39
Other reserves.....	8,597.12		1,500.05		4,011.46
Total reserves.....	37,513.76	14,791.86	17,904.08	29,445.07	58,531.46
SURPLUS					
Debentures paid.....	23,967.29	15,000.00	4,300.00	8,843.91	11,423.24
Local sinking fund.....					
Operating surplus.....	24,218.27	17,068.98	13,383.93	6,306.22	42,656.52
Total surplus.....	48,185.56	32,068.98	17,683.93	15,150.13	54,079.76
Total liabilities, reserves and surplus	148,468.82	47,579.99	36,104.10	46,643.42	115,164.85
Percentage of net debt to total assets.	46.3	2.8	2.1	7.4	3.8

"A"—Continued

Hydro Municipalities as at December 31, 1946

Drumbo P.V.	Dublin P.V.	Dundalk 705	Dundas 5,588	Dunnville 4,342	Durham 1,976	Dutton 812
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	218.00	19,401.77	3,722.21	210.28	75.11
.....	.....	.....	24,228.53	39,710.85	546.02	.....
4,882.50	6,055.52	8,781.83	60,251.46	43,015.87	25,579.40	10,650.07
.....
2,099.05	2,826.71	5,698.61	33,603.46	29,630.32	11,109.06	4,633.84
2,393.58	1,453.05	3,928.03	30,481.75	24,810.09	9,264.68	3,867.36
287.00	539.86	1,205.41	11,899.54	10,100.69	1,599.01	754.38
.....	.....	.....	1,154.52	.....	.....	.....
235.58	787.06	373.39	1,398.00	7,251.24	892.02	682.82
.....
.....	.....	.....	.....	10,717.62	.....	.....
.....
9,897.71	11,662.20	20,205.27	182,419.03	168,958.89	49,200.47	20,663.58
.....
3,932.63	2,416.15	2,925.60	4,851.95	1,026.76	3,055.86	1,312.95
5,000.00	1,500.00	9,000.00	30,500.00	35,000.00	12,000.00	9,500.00
398.11	78.77	130.69	143.26	1,039.88	384.77	150.78
.....	.....	.....	316.32	1,226.69	86.69	.....
.....
9,878.54	8,089.83	19,029.85	210,587.45	95,275.44	44,547.78	28,748.91
.....	.....	.....	148.07	.....	.....	.....
.....
29,106.99	23,746.95	51,291.41	428,966.08	302,527.66	109,275.57	60,376.22
.....
.....	.....	.....	.....	2,427.53	.....	.....
68.63	.....	74.50	429.69	129.32	179.46	1,377.55
.....
.....	16.00	.....	10,296.23	2,244.40	28.00	182.36
.....
68.63	16.00	74.50	10,725.92	4,801.25	207.46	1,559.91
.....
9,878.54	8,089.83	19,029.85	210,587.45	95,275.44	44,547.78	28,748.91
6,917.20	7,114.15	9,706.31	86,553.12	55,091.34	21,036.80	11,647.75
.....	.....	1,300.00	183.97	16,500.00	.....	33.23
.....
16,795.74	15,203.98	30,036.16	297,324.54	166,866.78	65,584.58	40,429.89
.....
4,500.00	6,200.00	5,955.96	53,000.00	73,072.47	25,800.00	8,407.49
.....
7,742.62	2,326.97	15,224.79	67,915.62	57,787.16	17,683.53	9,978.93
.....
12,242.62	8,526.97	21,180.75	120,915.62	130,859.63	43,483.53	18,386.42
.....
29,106.99	23,746.95	51,291.41	428,966.08	302,527.66	109,275.57	60,376.22
.....
0.4	0.1	0.2	4.9	2.3	0.3	4.9

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	East York Twp. V.A.	Elmira	Elmvale	Elmwood
Population.....		2,182	P.V.	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	38,170.70	7,540.68	106.25	
Substation equipment.....	106,472.59	18,411.70	2,273.07	
Distribution system—overhead.....	440,151.77	39,938.00	10,924.95	5,605.52
Distribution system—underground.....		540.21		
Line transformers.....	150,799.37	26,396.38	5,008.75	3,105.49
Meters.....	205,192.74	19,176.98	5,282.88	2,084.63
Street light equipment, regular.....	51,080.57	2,452.55	595.45	721.69
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	19,945.58	1,855.35	580.65	1,093.62
Steam or hydraulic plant.....		2,168.08		
Old plant.....				
Total plant.....	1,011,813.32	118,479.93	24,772.00	12,610.95
Bank and cash balance.....	24,002.71	5,412.00	3,201.88	944.65
Securities and investments.....		38,500.00	8,700.00	3,100.00
Accounts receivable.....	41,769.24	190.46	35.61	87.53
Inventories.....	16,606.40			10.41
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	449,042.50	112,670.54	21,166.32	6,280.49
Other assets.....	332.38			
Total assets.....	1,543,566.55	275,252.93	57,875.81	23,034.03
LIABILITIES				
Debenture balance.....		3,277.81		
Accounts payable.....	45,915.93	183.43	111.33	546.68
Bank overdraft.....				
Other liabilities.....	13,246.74	792.65		1,275.00
Total liabilities.....	59,162.67	4,253.89	111.33	1,821.68
RESERVES				
For equity in H-E.P.C. systems.....	449,042.50	112,670.54	21,166.32	6,280.49
For depreciation.....	200,545.83	52,255.35	11,013.54	4,636.90
Other reserves.....	3,200.32	9,000.00	3.68	
Total reserves.....	652,788.65	173,925.89	32,183.54	10,917.39
SURPLUS				
Debentures paid.....	349,763.36	33,890.69	7,000.00	7,200.00
Local sinking fund.....				
Operating surplus.....	481,851.87	63,182.46	18,580.94	3,094.96
Total surplus.....	831,615.23	97,073.15	25,580.94	10,294.96
Total liabilities, reserves and surplus.....	1,543,566.55	275,252.93	57,875.81	23,034.03
Percentage of net debt to total assets.....	5.4	2.6	0.3	10.9

“A”—Continued

Hydro Municipalities as at December 31, 1946

Elora 1,167	Embro 455	Erieau 223	Erie Beach 22	Essex 1,920	Etobicoke Twp. V.A.	Exeter 1,794
\$ c. 1,524.54	\$ c.	\$ c.	\$ c.	\$ c. 609.30	\$ c. 37,161.39	\$ c. 9,954.19
18,788.88	11,193.70	16,756.76	3,058.96	44,140.43	3,058.19 410,398.07	33,951.18
8,526.59	6,966.87	4,507.27	925.32	442.55 21,980.23	162,224.01	17,465.40
7,638.07	2,730.26	4,323.45	1,070.25	14,753.59	124,050.77	12,233.71
1,513.11	535.73	679.36	85.80	1,738.13	27,014.07	4,902.87
1,113.38	69.45	379.90	375.03	7,205.06 741.57	2,689.44 23,515.15	2,328.04
39,104.57	21,496.01	26,646.74	5,515.36	91,610.86	790,111.09	80,835.39
1,121.74	1,267.38	2,096.12	216.63	1,625.38	3,625.83	2,008.13
18,500.00	3,000.00	1,000.00	1,500.00	32,000.00	7,000.00	18,500.00
40.49	52.60	534.20	193.38	443.61	11,088.24	1,818.14
212.03					31,628.84	2,039.59
53,490.66	16,340.14	10,586.66	2,469.87	48,286.40 0.90	370,592.23	63,358.97 500.00
112,469.49	42,156.13	40,863.72	9,895.24	173,967.15	1,214,046.23	169,060.22
75.81	57.78	989.35	165.91	9,806.69 106.88	19,065.06 24,512.65	817.48
351.25	40.00	45.00	7.50	7,887.73	12,833.01 12,616.27	615.00
427.06	97.78	1,034.35	173.41	17,801.30	69,026.99	1,432.48
53,490.66	16,340.14	10,586.66	2,469.87	48,286.40	370,592.23	63,358.97
22,656.37	8,093.78	6,593.71	1,266.71	33,306.11	188,367.91	23,859.37
	9.58	39.16	18.90	7,328.29	30,222.30	8,534.06
76,147.03	24,443.50	17,219.53	3,755.48	88,920.80	589,182.44	95,752.40
13,000.00	7,500.00	6,883.13	3,300.00	12,693.31	246,630.34	20,000.05
22,895.40	10,114.85	15,726.71	2,666.35	54,551.74	309,206.46	51,875.29
35,895.40	17,614.85	22,609.84	5,966.35	67,245.05	555,836.80	71,875.34
112,469.49	42,156.13	40,863.72	9,895.24	173,967.15	1,214,046.23	169,060.22
0.7	0.4	3.4	2.3	8.9	7.9	1.4

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Fergus	Finch	Flesherton	Fonthill	Forest
Population.....	2,624	328	361	1,009	1,679
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	2,442.52		408.78		6,576.61
Substation equipment.....	16,583.00				
Distribution system—overhead.....	36,724.20	8,331.38	6,093.00	14,908.94	23,975.48
Distribution system—underground.....					
Line transformers.....	27,546.18	2,486.47	3,232.45	7,198.67	15,776.75
Meters.....	16,883.50	2,678.31	2,670.58	6,941.59	13,004.30
Street light equipment, regular.....	6,209.87	504.07	817.68	2,429.20	2,663.94
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	614.88	16.24	914.17	737.80	1,608.75
Steam or hydraulic plant.....					
Old plant.....	2,546.59			3,500.00	
Total plant.....	109,550.74	14,016.47	14,136.66	35,716.20	63,605.83
Bank and cash balance.....	859.88	529.57	2,227.96	2,241.09	4,049.02
Securities and investments.....	20,000.00	3,500.00	9,000.00	2,000.00	33,510.00
Accounts receivable.....	263.87	132.16	6.33	71.60	192.10
Inventories.....	166.46		28.40		1,047.32
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	98,129.69	6,857.80	9,248.53	10,422.59	51,281.11
Other assets.....					1.83
Total assets.....	228,970.64	25,036.00	34,647.88	50,451.48	153,687.21
LIABILITIES					
Debenture balance.....	917.06	585.74			
Accounts payable.....	2,166.51	832.05	40.61	123.27	178.70
Bank overdraft.....					
Other liabilities.....	655.17	225.95	67.00	324.30	137.46
Total liabilities.....	3,738.74	1,643.74	107.61	447.57	316.16
RESERVES					
For equity in H-E.P.C. systems.....	98,129.69	6,857.80	9,248.53	10,422.59	51,281.11
For depreciation.....	28,996.17	3,683.93	6,229.92	7,243.09	28,319.62
Other reserves.....	10,198.59	2.91			6,087.59
Total reserves.....	137,324.45	10,544.64	15,478.45	17,665.68	85,688.32
SURPLUS					
Debentures paid.....	41,082.94	6,414.26	6,700.00	22,500.00	23,357.13
Local sinking fund.....					
Operating surplus.....	46,824.51	6,433.36	12,361.82	9,838.23	44,325.60
Total surplus.....	87,907.45	12,847.62	19,061.82	32,338.23	67,682.73
Total liabilities, reserves and surplus.....	228,970.64	25,036.00	34,647.88	50,451.48	153,687.21
Percentage of net debt to total assets.....	2.9	9.0	0.4	0.7	0.3

"A"—Continued

Hydro Municipalities as at December 31, 1946

Forest Hill 13,960	Galt 14,703	Georgetown 2,468	Glencoe 703	Goderich 4,728	Grand Valley 594
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
39,501.92	232,660.27	5,041.05	3,587.66	13,569.89	36.50
80,767.90	162,229.03	9,194.71		36,060.24	
219,895.95	304,426.20	43,672.04	24,047.20	76,702.04	12,698.88
2,169.95	4,653.65				
120,483.26	158,827.53	38,290.20	9,389.55	31,240.02	3,819.98
74,720.38	100,713.09	20,785.47	5,289.69	26,579.66	4,300.40
10,667.29	74,632.25	4,645.54	2,664.77	9,159.76	1,067.12
16,795.63					
27,698.17	14,295.73	2,378.63	1,126.31	6,511.66	241.70
				14,622.15	
592,700.45	1,052,437.75	124,007.64	46,105.18	214,445.42	22,164.58
	8,910.22	6,349.57	2,727.69	9,694.80	1,708.24
179,000.00	120,000.00	10,767.40	15,100.00	65,000.00	11,000.00
4,826.59	1,694.65	1,345.80	69.96	6,673.95	130.01
9,296.27	39,383.05	206.95	382.27	1,121.60	
298,266.01	823,104.10	157,088.95	29,876.30	181,816.16	17,574.28
	603.08	87.63		16.77	
1,084,089.32	2,046,132.85	299,853.94	94,261.40	478,768.70	52,577.11
205,646.10				14,407.79	
4,833.11	167.42	450.65		1,552.26	
1,319.37					
29,362.70	5,977.02	2,793.61	316.59	3,609.06	
241,161.28	6,144.44	3,244.26	316.59	19,569.11	
298,266.01	823,104.10	157,088.95	29,876.30	181,816.16	17,574.28
169,420.53	456,246.32	32,067.83	17,290.08	116,328.62	13,064.39
750.00	40,722.46		1,851.64	6,819.63	1,000.00
468,436.54	1,320,072.88	189,156.78	49,018.02	304,964.41	31,638.67
157,135.50	518,001.95	20,000.00	20,112.88	81,680.26	11,000.00
217,356.00	201,913.58	87,452.90	24,813.91	72,554.92	9,938.44
374,491.50	719,915.53	107,452.90	44,926.79	154,235.18	20,938.44
1,084,089.32	2,046,132.85	299,853.94	94,261.40	478,768.70	52,577.11
29.2	0.5	2.3	0.5	6.6	0.0

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Granton	Gravenhurst	Grimsby	Guelph
Population.....	P.V.	2,485	1,993	23,225
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings		9,697.27		14,770.87
Substation equipment.....		10,936.03		172,523.76
Distribution system—overhead.....	4,899.16	41,171.52	40,665.00	303,333.45
Distribution system—underground.....		1,941.77		28,847.47
Line transformers.....	1,515.11	16,782.86	26,371.64	135,899.82
Meters.....	1,837.00	16,041.34	19,442.91	129,078.93
Street light equipment, regular.....	180.78	4,472.25	2,562.07	46,410.53
Street light equipment, ornamental.....			1,925.00	
Miscellaneous construction expense.....	113.08	1,056.16	1,061.60	16,604.15
Steam or hydraulic plant.....				
Old plant.....				
Total plant.....	8,545.13	102,099.20	92,028.22	847,468.98
Bank and cash balance.....	405.76	1,824.36	2,273.66	362.50
Securities and investments.....	5,200.00	22,000.00		65,000.00
Accounts receivable.....	609.39	238.35	78.55	7,858.78
Inventories.....		2,066.20	150.62	25,174.35
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	11,396.47	49,063.15	8,675.55	976,154.62
Other assets.....				2,140.00
Total assets.....	26,156.75	177,291.26	103,206.60	1,924,159.23
LIABILITIES				
Debenture balance.....			4,079.21	
Accounts payable.....	578.04	401.07	1,144.23	31,798.51
Bank overdraft.....				6,031.81
Other liabilities.....		985.00	3,479.90	3,050.45
Total liabilities.....	578.04	1,386.07	8,703.34	40,880.77
RESERVES				
For equity in H-E.P.C. systems.....	11,396.47	49,063.15	8,675.55	976,154.62
For depreciation.....	4,795.45	39,386.04	9,974.91	256,225.87
Other reserves.....	60.00	8,072.91		800.06
Total reserves.....	16,251.92	96,522.10	18,650.46	1,233,180.55
SURPLUS				
Debentures paid.....	3,500.00	44,278.97	81,264.79	145,000.00
Local sinking fund.....				
Operating surplus.....	5,826.79	35,104.12	†5,411.99	505,097.91
Total surplus.....	9,326.79	79,383.09	75,852.80	650,097.91
Total liabilities, reserves and surplus.....	26,156.75	177,291.26	103,206.60	1,924,159.23
Percentage of net debt to total assets.....	3.9	1.1	7.3	4.3

† Deficit

"A"—Continued

Hydro Municipalities as at December 31, 1946

Hagersville	Hamilton*	Hanover	Harriston	Harrow	Hastings	Havelock
1,562	174,222	3,133	1,252	1,150	723	936
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	999,810.39	3,894.32	395.25	2,318.16	.....	.....
864.37	2,390,457.72	9,271.19	600.00	.....	.....	572.90
21,751.01	1,396,847.17	55,450.18	23,341.75	22,782.56	17,917.87	19,776.97
.....	888,618.60	.....	.....	.....	.....	.....
13,152.02	1,087,089.41	28,736.52	9,730.05	12,453.08	4,089.46	4,112.57
11,555.04	919,656.78	20,719.73	10,399.65	9,666.51	4,511.04	6,481.29
1,252.45	302,271.20	2,673.22	1,332.00	970.46	1,212.07	1,883.33
.....
710.83	40,439.62	5,571.41	1,066.36	58.70	669.85	4,264.37
.....	.....	.....	1,001.43	.....	1,733.13	2,420.45
.....
49,285.72	8,025,190.89	126,316.57	47,866.49	48,249.47	30,133.42	39,511.88
.....
10,834.15	763,841.34	10,663.89	4,448.43	4,731.73	451.29	2,653.89
27,000.00	1,500,000.00	69,783.47	10,400.00	9,200.00	7,000.00	16,500.00
104.02	475,877.81	593.42	374.65	242.83	134.40	64.14
.....	198,233.31	311.86	193.95	144.75	.....	.....
.....
110,208.77	8,392,223.98	119,146.41	50,071.92	40,311.74	6,226.90	17,432.98
0.74	103,129.07	.....	.....	.....	.....	.....
.....
197,433.40	19,458,496.40	326,815.62	113,355.44	102,880.52	43,946.01	76,162.89
.....
.....	313,000.00	.....	1,119.04	.....	7,504.02	.....
16.00	340,105.43	7.56	10.00	1,254.40	212.75	236.18
.....
579.43	36,925.23	1,073.95	40.72	360.71	418.47	180.00
.....
595.43	690,030.66	1,081.51	1,169.76	1,615.11	8,135.24	416.18
.....
110,208.77	8,392,223.98	119,146.41	50,071.92	40,311.74	6,226.90	17,432.98
21,217.43	2,084,430.22	81,356.94	18,063.17	15,326.49	7,902.00	15,038.16
6,000.00	1,996,956.09	12,500.00	.....	136.30	.....	.....
.....
137,426.20	12,473,610.29	213,003.35	68,135.09	55,774.53	14,128.90	32,471.14
.....
8,000.00	3,747,275.19	87,500.00	24,698.99	12,000.00	13,495.98	32,900.00
.....
51,411.77	2,547,580.26	25,230.76	19,351.60	33,490.88	8,185.89	10,375.57
.....
59,411.77	6,294,855.45	112,730.76	44,050.59	45,490.88	21,681.87	43,275.57
.....
197,433.40	19,458,496.40	326,815.62	113,355.44	102,880.52	43,946.01	76,162.89
.....
0.7	6.2	0.5	1.8	2.6	23.4	0.7

* Includes 1946 power adjustment and equity in H-E.P.C. system

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Hensall	Hespeler	Highgate	Holstein	Humberstone
Population.....	631	2,936	304	P.V.	3,287
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		4,857.00			8,347.17
Substation equipment.....		38,946.53			
Distribution system—overhead....	12,855.57	34,368.99	8,451.33	2,489.74	27,488.28
Distribution system—underground..					
Line transformers.....	7,293.35	33,556.08	2,461.29	1,391.36	19,451.22
Meters.....	4,575.84	15,663.96	2,034.17	917.13	13,033.79
Street light equipment, regular....	612.83	9,194.48	453.91	170.44	1,637.65
Street light equipment, ornamental..					
Miscellaneous construction expense	643.73	3,760.33	491.60	170.25	754.63
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	25,981.32	140,347.37	13,892.30	5,138.92	70,712.74
Bank and cash balance.....	1,462.89	7,532.97	341.42	1,161.36	4,926.25
Securities and investments.....	12,000.00	31,000.00	6,000.00	4,500.00	19,500.00
Accounts receivable.....	17.48	748.24	38.80		180.55
Inventories.....		479.78			
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	24,561.07	179,448.30	13,766.77	3,830.53	33,627.48
Other assets.....		366.66			
Total assets.....	64,022.76	359,923.32	34,039.29	14,630.81	128,947.02
LIABILITIES					
Debenture balance.....		7,113.41			
Accounts payable.....	494.84	347.49		87.65	497.67
Bank overdraft.....					
Other liabilities.....	30.00	960.00	100.00		2,188.16
Total liabilities.....	524.84	8,420.90	100.00	87.65	2,685.83
RESERVES					
For equity in H-E.P.C. systems....	24,561.07	179,448.30	13,766.77	3,830.53	33,627.48
For depreciation.....	12,772.98	32,764.17	7,613.41	2,424.74	12,038.38
Other reserves.....		154.46			6,000.00
Total reserves.....	37,334.05	212,366.93	21,380.18	6,255.27	51,665.86
SURPLUS					
Debentures paid.....	12,000.00	70,457.10	5,000.00	2,762.05	32,000.00
Local sinking fund.....					
Operating surplus.....	14,163.87	68,678.39	7,559.11	5,525.84	42,595.33
Total surplus.....	26,163.87	139,135.49	12,559.11	8,287.89	74,595.33
Total liabilities, reserves and surplus.	64,022.76	359,923.32	34,039.29	14,630.81	128,947.02
Percentage of net debt to total assets.	1.3	4.7	0.5	0.8	2.8

“A”—Continued

Hydro Municipalities as at December 31, 1946

Huntsville	Ingersoll	Iroquois	Jarvis	Kemptville	Kincardine
2,750	5,826	910	557	1,200	2,337
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
353.52	16,291.49	281.20		4,719.34	6,846.55
647.30	51,338.29	100.00			2,794.20
25,073.95	63,177.43	9,733.66	10,602.96	21,209.41	48,944.88
15,140.15	50,341.79	3,809.02	5,839.24	8,938.46	21,811.71
15,795.51	35,950.59	5,221.85	3,678.95	9,494.01	15,262.18
8,587.86	5,308.47	1,374.13	931.82	1,090.07	6,884.13
	4,597.59				
2,327.50	12,847.61	1,091.47	54.00	6,379.38	417.45
5,156.20		575.00			
73,081.99	239,853.26	22,186.33	21,106.97	51,830.67	102,961.10
6,282.21	5,649.02		1,773.94	652.52	
7,000.00	5,292.95	5,000.00	13,500.00	15,000.00	26,000.00
3,788.45	1,502.14	2,461.92	27.55	3,286.13	330.93
4,668.84	1,527.37	250.00	338.00	1,970.64	247.51
89,916.53	273,372.05	3,220.78	22,443.30	30,424.25	64,724.56
	208.24				
184,738.02	527,405.03	33,119.03	59,189.76	103,164.21	194,264.10
771.94	17,888.85	62.58		1,269.59	153.45
		536.19			94.08
1,064.42	6,876.94	256.42		219.69	1,069.00
1,836.36	24,765.79	855.19		1,489.28	1,316.53
89,916.53	273,372.05	3,220.78	22,443.30	30,424.25	64,724.56
21,585.93	39,718.97	2,451.28	7,749.84	16,923.77	32,741.43
309.83	4,358.06	2,000.00			7,564.07
111,812.29	317,449.08	7,672.06	30,193.14	47,348.02	105,030.06
21,133.54	79,800.00		10,500.00	25,000.00	60,000.00
49,955.83	105,390.16	24,591.78	18,496.62	29,326.91	27,917.51
71,089.37	185,190.16	24,591.78	28,996.62	54,326.91	87,917.51
184,738.02	527,405.03	33,119.03	59,189.76	103,164.21	194,264.10
1.8	8.1	2.8	0.0	2.1	1.0

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Kingston	Kingsville	Kirkfield	Kitchener
Population.....	36,697	2,380	P.V.	36,165
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	269,177.98	8,600.27		293,596.46
Substation equipment.....	306,303.61			451,407.70
Distribution system—overhead.....	258,422.11	36,891.80	5,179.43	478,768.01
Distribution system—underground.....	214,080.96			119,026.75
Line transformers.....	122,720.59	17,176.18	757.90	277,309.85
Meters.....	157,353.32	17,403.99	884.55	278,373.76
Street light equipment, regular.....	83,629.62	1,559.61	379.00	82,646.47
Street light equipment, ornamental.....		19,200.00		126,922.86
Miscellaneous construction expense.....	47,680.08	813.86	234.11	36,708.28
Steam or hydraulic plant.....	17,665.40			
Old plant.....				52,363.91
Total plant.....	1,477,033.67	101,645.71	7,434.99	2,197,124.05
Bank and cash balance.....	29,460.95	2,640.67	1,670.20	40,951.84
Securities and investments.....	480,000.00	32,500.00	3,000.00	125,000.00
Accounts receivable.....	42,445.91	268.57	43.65	109,938.72
Inventories.....	26,138.80			72,914.68
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	225,931.62	61,425.22	4,595.89	1,963,869.78
Other assets.....	4,827.94	0.70		959.42
Total assets.....	2,285,838.89	198,480.87	16,744.73	4,510,758.49
LIABILITIES				
Debenture balance.....	7,049.00	15,113.05		98,000.00
Accounts payable.....		119.30	14.25	95,685.22
Bank overdraft.....				
Other liabilities.....	27,565.98	22,872.25		130,739.70
Total liabilities.....	34,614.98	38,104.60	14.25	324,424.92
RESERVES				
For equity in H-E.P.C. systems.....	225,931.62	61,425.22	4,595.89	1,963,869.78
For depreciation.....	450,667.41	36,890.40	4,735.80	595,709.67
Other reserves.....	267,215.97	5,382.80	200.00	6,763.57
Total reserves.....	943,815.00	103,698.42	9,531.69	2,566,343.02
SURPLUS				
Debentures paid.....	304,851.00	18,386.95	6,000.00	639,150.00
Local sinking fund.....				
Operating surplus.....	1,002,557.91	38,290.90	1,198.79	980,840.55
Total surplus.....	1,307,408.91	56,677.85	7,198.79	1,619,990.55
Total liabilities, reserves and surplus.....	2,285,838.89	198,480.87	16,744.73	4,510,758.49
Percentage of net debt to total assets.....	1.7	16.0	0.1	8.1

Hydro Municipalities as at December 31, 1946

Lakefield	Lambeth	Lanark	Lancaster	La Salle	Leamington	Lindsay
1,372	P.V.	734	526	1,100	5,456	7,740
\$ c. 3,137.97	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
25,888.22	10,253.81	11,067.33	8,789.65	26,588.57	19,644.55	10,877.68
8,640.96	2,990.87	5,087.57	1,974.75	8,916.54	7,101.97	3,176.56
8,977.83	3,311.71	3,218.55	2,061.98	6,701.23	28,333.23	12,386.55
2,018.75	1,053.80	791.04	650.65	1,076.35	31,555.92	46,057.67
3,681.12	300.71		1,068.55	1,863.82	36,116.47	42,218.70
3,445.25					3,237.49	11,754.26
					14,478.49	
					7,187.69	5,668.21
55,790.10	17,910.90	20,164.49	14,545.58	46,357.19		
6,100.93		504.09	1,678.40	484.11	212,135.42	249,425.08
21,000.00	4,000.00		1,500.00	4,000.00		
226.45	47.36	142.45	49.89	301.04	47,500.00	68,517.22
				13.61	2,768.65	478.39
					6,030.93	10,728.77
20,286.19	14,288.81	9,136.30	8,592.30	21,461.11	137,253.63	159,931.98
					0.29	
103,403.67	36,247.07	29,947.33	26,366.17	72,617.06	405,788.92	489,081.44
8,788.40						19,396.53
90.07	74.05		52.73	1,544.97	381.96	201.99
	316.17				2,299.31	3,438.61
614.53	160.00	140.00	182.53	986.58	17,715.08	4,462.44
9,493.00	550.22	140.00	235.26	2,531.55	20,396.35	27,499.57
20,286.19	14,288.81	9,136.30	8,592.30	21,461.11	137,253.63	159,931.98
19,848.29	7,617.31	1,469.76	3,800.91	15,289.80	54,338.56	65,404.21
	1,218.59			171.26	22,165.62	
40,134.48	23,124.71	10,606.06	12,393.21	36,922.17	213,757.81	225,336.19
24,711.60	4,000.00	7,316.57	9,970.42	15,500.00	48,000.00	110,603.47
29,064.59	8,572.14	11,884.70	3,767.28	17,663.34	123,634.76	125,642.21
53,776.19	12,572.14	19,201.27	13,737.70	33,163.34	171,634.76	236,245.68
103,403.67	36,247.07	29,947.33	26,366.17	72,617.06	405,788.92	489,081.44
11.4	2.5	0.7	1.3	4.9	2.3	8.4

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Listowel	London	London Twp. V.A.	Long Branch 5,186	Lucan
Population.....	3,209	79,562			570
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,459.49	459,951.82			375.45
Substation equipment.....		1,024,565.18			
Distribution system—overhead....	52,536.04	874,681.07	26,032.85	66,310.90	12,167.73
Distribution system—underground..	5,890.13	475,039.02			
Line transformers.....	28,046.18	481,000.23	9,665.55	22,738.79	5,584.18
Meters.....	21,019.99	426,155.65	7,364.84	27,157.81	4,413.04
Street light equipment, regular....	3,971.21	76,522.78	1,884.85	8,270.46	4,549.30
Street light equipment, ornamental	1,539.79	92,286.12			
Miscellaneous construction expense	2,132.43	157,533.76	1,555.70	1,257.66	445.57
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	116,595.26	4,067,735.63	46,503.79	125,735.62	27,535.27
Bank and cash balance.....	471.79	1,000.00	2,539.87	569.83	1,012.21
Securities and investments.....	20,000.00	1,356,500.00	6,000.00	40,000.00	10,500.00
Accounts receivable.....	693.36	288,774.25	1,233.63	21,105.38	9.29
Inventories.....	119.91	125,452.21			
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	118,686.41	3,568,695.09	33,222.35	48,147.63	25,938.50
Other assets.....	171.52	4,682.61			
Total assets.....	256,738.25	9,412,839.79	89,499.64	235,558.46	64,995.27
LIABILITIES					
Debenture balance.....		3,023.92	420.21		
Accounts payable.....	1,569.54	106,875.50	1,356.08	569.53	107.98
Bank overdraft.....	1,062.30	68,480.94			
Other liabilities.....	471.79	102,164.14	449.00	2,569.83	217.00
Total liabilities.....	3,103.63	280,544.50	2,225.29	3,139.36	324.98
RESERVES					
For equity in H-E.P.C. systems....	118,686.41	3,568,695.09	33,222.35	48,147.63	25,938.50
For depreciation.....	61,732.62	1,887,563.83	15,478.54	35,472.89	11,903.10
Other reserves.....	2,500.00	644,844.02	3.82	16,186.20	
Total reserves.....	182,919.03	6,101,102.94	48,704.71	99,806.72	37,841.60
SURPLUS					
Debentures paid.....	43,189.89	1,578,876.08	18,579.79	40,304.60	11,213.62
Local sinking fund.....					
Operating surplus.....	27,525.70	1,452,316.27	19,989.85	92,307.78	15,615.07
Total surplus.....	70,715.59	3,031,192.35	38,569.64	132,612.38	26,828.69
Total liabilities, reserves and surplus.	256,738.25	9,412,839.79	89,499.64	235,558.46	64,995.27
Percentage of net debt to total assets.	1.1	3.3	2.5	1.6	0.8

"A"—Continued

Hydro Municipalities as at December 31, 1946

Lucknow	Lynden	Madoc	Markdale	Markham	Marmora	Martintown
928	P.V.	1,090	722	1,173	965	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	241.18	100.00	.....	.....	.....	126.15
21,600.71	4,982.72	14,070.35	780.80 11,555.35	21,214.38	14,297.01	2,932.57
12,460.71	3,136.23	6,242.05	6,472.80	12,693.45	4,042.41	1,308.76
6,905.94	2,564.32	6,109.61	5,494.21	9,422.67	4,315.22	1,196.29
1,509.55	636.01	1,577.14	1,390.15	1,160.91	1,193.23	354.94
2,313.58	193.57	.....	586.56	1,631.13	2,283.94	690.21
.....	.....	.....	2,080.65	.....	573.62	.....
44,790.49	11,754.03	28,099.15	28,360.52	46,122.54	26,705.43	6,608.92
5,403.70	422.36	1,545.68	1,883.15	714.21	2,446.87	1,538.75
10,000.00	5,000.00	10,000.00	12,155.13	16,000.00	8,000.00	2,500.00
308.94	510.90	765.99	86.12	184.30	802.32	178.40
.....	.....	.....	.....	.....	357.83	.....
30,666.95	18,168.86	12,527.42	15,285.42	29,374.59	8,799.93	3,087.48
91,170.08	35,856.15	52,938.24	57,770.34	92,395.64	47,112.38	13,913.55
91.64	26.16	292.87	69.84	.....	96.48	295.32
.....	26.00	471.64	177.00	205.00	260.00	5.00
91.64	52.16	764.51	246.84	205.00	356.48	300.32
30,666.95	18,168.86	12,527.42	15,285.42	29,374.59	8,799.93	3,087.48
8,207.33	5,168.07	1,597.82	11,821.11	8,993.47	7,519.68	2,467.08
6,750.00	.....	.....	1,000.00	3,032.39	.....	81.02
45,624.28	23,336.93	14,125.24	28,106.53	41,400.45	16,319.61	5,635.58
19,713.16	4,495.00	14,000.00	9,000.00	11,373.63	17,666.11	6,000.00
25,741.00	7,972.06	24,048.49	20,416.97	39,416.56	12,770.18	1,977.65
45,454.16	12,467.06	38,048.49	29,416.97	50,790.19	30,436.29	7,977.65
91,170.08	35,856.15	52,938.24	57,770.34	92,395.64	47,112.38	13,913.55
0.1	0.3	1.9	0.6	0.3	0.9	2.8

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Maxville	Meaford	Merlin	Merritton	Midland
Population.....	807	2,650	P.V.	3,407	6,863
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		1,144.18	2,350.00	6,764.41	19,983.57
Substation equipment.....	407.79	4,093.47		84,395.94	85,419.70
Distribution system—overhead....	12,101.95	37,884.68	9,788.48	45,310.18	102,305.14
Distribution system—underground.					
Line transformers.....	2,420.14	11,798.47	4,279.31	17,467.82	32,255.71
Meters.....	3,560.21	13,700.79	3,317.06	19,664.56	45,102.47
Street light equipment, regular....	2,055.15	4,112.20	570.46	5,275.32	19,322.71
Street light equipment, ornamental					
Miscellaneous construction expense	2,392.42	3,827.63	587.99	5,770.37	462.75
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	22,937.66	76,561.42	20,893.30	184,648.60	304,852.05
Bank and cash balance.....	36.85	2,820.25	1,176.71	36,668.20	63,511.87
Securities and investments.....	9,100.00	28,000.00	13,200.00	77,000.00	66,000.00
Accounts receivable.....	119.11	199.04	201.76	207.78	8,474.82
Inventories.....		32.88	130.61	384.31	5,820.02
Sinking fund on local debentures.					
Equity in H-E.P.C. systems.....	13,759.74	47,346.67	16,211.00	300,379.83	323,307.88
Other assets.....		12.20		167.02	137.25
Total assets.....	45,953.36	154,972.46	51,813.38	599,455.74	772,103.89
LIABILITIES					
Debenture balance.....					
Accounts payable.....	397.74	210.04	378.36	297.50	311.30
Bank overdraft.....					
Other liabilities.....	139.89	1,104.26	110.00	758.88	1,493.65
Total liabilities.....	537.63	1,314.30	488.36	1,056.38	1,804.95
RESERVES					
For equity in H-E.P.C. systems....	13,759.74	47,346.67	16,211.00	300,379.83	323,307.88
For depreciation.....	7,909.35	23,146.70	6,654.19	42,784.70	237,888.03
Other reserves.....	356.07	46.65	23.40	27,000.00	1,303.06
Total reserves.....	22,025.16	70,540.02	22,888.59	370,164.53	562,498.97
SURPLUS					
Debentures paid.....	16,000.00	49,360.20	13,122.36	32,186.21	111,944.99
Local sinking fund.....					
Operating surplus.....	7,390.57	33,757.94	15,314.07	196,048.62	95,854.98
Total surplus.....	23,390.57	83,118.14	28,436.43	228,234.83	207,799.97
Total liabilities, reserves and surplus.	45,953.36	154,972.46	51,813.38	599,455.74	772,103.89
Percentage of net debt to total assets.	1.7	1.2	1.4	0.4	0.4

“A”—Continued

Hydro Municipalities as at December 31, 1946

Mildmay 767	Millbrook 679	Milton 1,893	Milverton 961	Mimico 8,353	Mitchell 1,560	Moorefield P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	14,514.88	761.88	33,409.26	19,697.29	.....
.....	.....	16,456.16	.....	43,269.83	16,526.28	.....
7,540.60	6,746.49	26,688.91	13,306.34	89,749.12	33,523.53	4,452.04
.....
3,685.51	1,772.56	20,080.15	12,020.24	50,636.23	20,494.69	2,909.16
3,667.30	2,365.34	17,725.67	6,424.03	40,018.68	16,039.15	1,798.91
638.24	595.65	5,525.79	848.75	10,626.83	7,495.15	295.88
.....
1,038.66	79.92	4,301.75	623.67	3,951.72	1,760.93	350.25
.....
849.00	.....	.....	.....	.....	1,380.00	.....
.....
17,419.31	11,559.96	105,293.31	33,984.91	271,661.67	116,917.02	9,806.24
.....
1,281.02	4,361.71	5,630.32	2,186.17	63.81	70.00	609.43
10,000.00	4,000.00	38,000.00	6,500.00	55,000.00	27,050.00	500.00
.....	46.54	1,002.87	160.83	1,186.50	7,465.27	48.88
.....	.....	4,363.22	.....	.....	6,791.15	.....
.....
6,090.54	2,006.48	144,676.33	59,212.62	208,296.05	65,554.34	8,865.11
.....	.....	.....	3.38	44.37	2.96	.....
.....
34,790.87	21,974.69	298,966.05	102,047.91	536,252.40	223,850.74	19,829.66
.....
5,498.78	.....	.....	.....	.....	.....	.....
.....	.....	6,058.53	122.54	10.40	655.66	92.28
.....	.....	.....	.....	.....	403.92	.....
514.85	182.67	688.13	.....	5,389.00	305.00	8.00
.....
6,013.63	182.91	6,746.66	122.54	5,399.40	1,364.58	100.28
.....
6,090.54	2,006.48	144,676.33	59,212.62	208,296.05	65,554.34	8,865.11
4,045.00	1,156.81	33,650.43	10,614.26	101,964.73	51,942.95	3,618.17
.....	.....	10,176.28	.....	18,078.09	1,267.05	.....
.....
10,135.54	3,163.29	188,503.04	69,826.88	328,338.87	118,764.34	12,483.28
.....
6,804.72	9,000.00	33,046.41	9,500.00	127,000.00	22,295.22	4,500.00
.....
11,836.98	9,628.49	70,669.94	22,598.49	75,514.13	81,426.60	2,746.10
.....
18,641.70	18,628.49	103,716.35	32,098.49	202,514.13	103,721.82	7,246.10
.....
34,790.87	21,974.69	298,966.05	102,047.91	536,252.40	223,850.74	19,829.66
.....
20.9	0.9	4.4	0.3	1.6	0.9	1.0

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Morris- burg 1,436	Mount Brydges P.V.	Mount Forest 1,787	Napanee 3,362	Neustadt 418
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	4,980.00		3,726.00	16,354.36	
Substation equipment.....	4,457.21		686.75	2,358.27	
Distribution system—overhead....	12,800.19	8,365.14	24,026.51	51,887.80	11,175.97
Distribution system—underground..					
Line transformers.....	6,539.56	1,845.43	9,800.58	14,859.79	5,078.22
Meters.....	8,096.88	3,339.47	10,039.01	22,250.15	3,209.34
Street light equipment, regular....	1,957.70	1,385.36	2,397.89	4,853.01	496.41
Street light equipment, ornamental					
Miscellaneous construction expense	546.34	105.90	1,888.42	6,252.13	1,495.88
Steam or hydraulic plant.....					
Old plant.....	3,364.41		3,810.95		
Total plant.....	42,742.29	15,041.30	56,376.11	118,815.51	21,455.82
Bank and cash balance.....	4,407.41	1,038.21	3,242.52	1,340.08	3,214.83
Securities and investments.....	8,000.00	14,000.00	13,000.00	12,800.00	11,700.00
Accounts receivable.....	297.74	648.28	164.63	10,068.52	61.39
Inventories.....			48.27	7,787.32	
Sinking fund on local debentures					
Equity in H-E.P.C. systems.....	4,912.48	11,072.05	49,103.00	65,618.22	8,715.92
Other assets.....				13.72	
Total assets.....	60,359.92	41,799.84	121,934.53	216,443.37	45,147.96
LIABILITIES					
Debenture balance.....	2,149.58				
Accounts payable.....	497.19	565.48	41.88		173.48
Bank overdraft.....					
Other liabilities.....	1,781.32	150.66	285.00	1,230.91	148.85
Total liabilities.....	4,428.09	716.14	326.88	1,230.91	322.33
RESERVES					
For equity in H-E.P.C. systems....	4,912.48	11,072.05	49,103.00	65,618.22	8,715.92
For depreciation.....	3,335.84	6,623.53	28,964.43	22,406.69	11,680.04
Other reserves.....	6,927.13	97.38	1,500.00	2,500.00	
Total reserves.....	15,175.45	17,792.96	79,567.43	90,524.91	20,395.96
SURPLUS					
Debentures paid.....	32,423.70	4,220.00	30,958.60	70,000.00	17,000.00
Local sinking fund.....					
Operating surplus.....	8,332.68	19,070.74	11,081.62	54,687.55	7,429.67
Total surplus.....	40,756.38	23,290.74	42,040.22	124,687.55	24,429.67
Total liabilities, reserves and surplus.	60,359.92	41,799.84	121,934.53	216,443.37	45,147.96
Percentage of net debt to total assets.	8.0	2.3	0.4	0.8	0.9

"A"—Continued

Hydro Municipalities as at December 31, 1946

Newbury 207	Newcastle 675	New Hamburg 1,456	Newmarket 3,990	New Toronto 7,182	Niagara Falls 19,138
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	107.37	4,203.21	4,000.00	47,433.92	130,662.86
7,020.68	15,473.54	1,319.80	5,000.00	.....	280,817.49
.....	.....	25,438.47	54,869.24	105,483.73	217,032.27
1,571.26	4,673.83	.....	.....	17,198.72	.....
1,514.19	4,293.72	12,129.44	30,304.87	53,056.67	219,063.54
881.47	980.51	12,005.20	23,475.88	45,910.16	132,906.24
.....	.....	2,274.20	6,810.23	10,545.44	118,826.62
504.57	1,544.00	.....	.....	.....	.....
.....	.....	616.97	2,231.40	6,303.40	23,574.59
.....	.....	5,242.56	.....	.....	.....
11,492.17	27,072.97	63,229.85	126,691.62	285,932.04	1,122,883.61
977.08	476.75	282.48	25.00	17,479.62	9,419.65
6,500.00	9,000.00	18,100.00	.....	134,000.00	230,000.00
427.26	319.34	489.44	595.76	2,814.58	2,176.35
.....	.....	1,027.14	95.42	4,570.86	31,913.90
6,221.50	4,433.69	70,114.57	2,665.15	707,943.24	806,229.74
.....	.....	.....	.....	.....	684.49
25,618.01	41,302.75	153,243.48	130,072.95	1,152,740.34	2,203,307.74
.....	.....	.....	4,000.00	.....	21,340.21
.....	2.80	163.88	342.02	1,132.64	2,637.95
42.84	.....	.....	1,896.23	.....	3,236.84
.....	.....	161.50	.....	6,478.01	20,194.12
42.84	2.80	325.38	6,238.25	7,610.65	47,409.12
6,221.50	4,433.69	70,114.57	2,665.15	707,943.24	806,229.74
6,446.91	12,104.25	20,991.66	42,194.38	92,868.34	371,862.44
.....	.....	4,633.83	.....	366.15	16,064.76
12,668.41	16,537.94	95,740.06	44,859.53	801,177.73	1,194,156.94
9,754.39	14,000.00	17,729.08	1,000.00	8,000.00	668,902.79
3,152.37	10,762.01	39,448.96	77,975.17	335,951.96	292,838.89
12,906.76	24,762.01	57,178.04	78,975.17	343,951.96	961,741.68
25,618.01	41,302.75	153,243.48	130,072.95	1,152,740.34	2,203,307.74
0.2	0.0	0.4	4.9	1.7	3.4

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Niagara-on-the-Lake 1,802	North York Twp. V.A.	Norwich 1,249	Norwood 685	Oil Springs 396
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	2,320.00	48,339.66	4,660.42		6,299.16
Substation equipment.....	24,212.17	80,574.14		457.53	2,461.78
Distribution system—overhead.....	43,148.08	572,037.95	11,926.99	24,189.34	15,436.94
Distribution system—underground.....					
Line transformers.....	25,175.05	199,963.48	8,749.38	6,019.00	6,828.29
Meters.....	15,582.62	149,305.70	9,253.43	6,373.24	4,455.07
Street light equipment, regular.....	4,767.84	156.00	4,685.64	1,837.92	308.24
Street light equipment, ornamental.....		36,638.38			
Miscellaneous construction expense.....	3,737.54	36,734.37	972.98	3,582.30	1,472.74
Steam or hydraulic plant.....					
Old plant.....				2,447.51	
Total plant.....	118,943.30	1,123,749.68	40,248.84	44,906.84	37,262.22
Bank and cash balance.....	6,500.41	18,487.73	1,433.51	2,427.82	4,098.04
Securities and investments.....		30,000.00	14,000.00	20,500.00	8,500.00
Accounts receivable.....	1,176.21	15,311.35	1,352.32	1,009.00	122.00
Inventories.....	4,790.92	33,458.94	1,979.90		193.21
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	48,056.91	304,381.95	51,761.00	9,122.15	33,953.24
Other assets.....	0.30		48.15		
Total assets.....	179,468.05	1,525,389.65	110,823.72	77,965.81	84,128.71
LIABILITIES					
Debenture balance.....	14,115.14	90,630.96		8,342.35	
Accounts payable.....	1,264.05	40,427.25	167.58	278.98	226.27
Bank overdraft.....					
Other liabilities.....	454.30	50,467.26	387.32	596.88	17.80
Total liabilities.....	15,833.49	181,525.47	554.90	9,218.21	244.07
RESERVES					
For equity in H-E.P.C. systems.....	48,056.91	304,381.95	51,761.00	9,122.15	33,953.24
For depreciation.....	24,813.98	257,009.26	12,573.82	18,870.29	14,562.91
Other reserves.....	701.86	1,615.30	559.96		1,285.23
Total reserves.....	73,572.75	563,006.51	64,894.78	27,992.44	49,801.38
SURPLUS					
Debentures paid.....	34,386.28	437,390.91	13,756.00	28,757.65	16,721.31
Local sinking fund.....					
Operating surplus.....	55,675.53	343,466.76	31,618.04	11,997.51	17,361.95
Total surplus.....	90,061.81	780,857.67	45,374.04	40,755.16	34,083.26
Total liabilities, reserves and surplus.....	179,468.05	1,525,389.65	110,823.72	77,965.81	84,128.71
Percentage of net debt to total assets.....	12.0	12.2	0.5	13.4	0.6

“A”—Continued

Hydro Municipalities as at December 31, 1946

Omemee	Orangeville	Orono	Oshawa	Ottawa	Otterville
598	2,633	P.V.	26,454	163,690	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
360.32	2,585.07		72,407.61	580,137.53	
16,569.45	1,169.00		67,336.66	1,112,447.29	
	40,043.75	6,322.75	324,950.89	955,007.16	9,277.01
			463.73	290,069.75	
8,199.52	16,217.96	2,066.57	107,190.90	435,093.61	5,589.30
3,931.14	16,228.11	2,469.25	147,756.66	326,885.89	3,575.35
805.48	7,601.62	1,285.76	21,483.51	126,849.45	1,722.75
1,405.00	6,155.82	762.59	14,590.98	39,415.08	500.73
			6,431.65		
31,270.91	90,001.33	12,906.92	762,612.59	3,865,905.76	20,665.14
535.50	3,844.04	1,659.57	100,713.21	470,778.21	764.13
8,000.00	23,000.00	5,000.00	285,000.00	1,140,000.00	6,500.00
582.92	364.42	.84	88,364.14	97,111.21	23.38
	270.74		34,622.38	42,781.11	513.00
				246,700.77	
3,094.14	66,932.91	2,139.58	847,523.30	363,690.62	12,801.17
	12.86		553.45		
43,483.47	184,426.30	21,706.91	2,119,389.07	6,226,976.68	41,266.82
				96,241.43	
1,854.61	226.07	3.03	57,729.91	85,207.73	80.03
151.79	138.00		27,778.78	24,063.40	83.88
2,006.40	364.07	3.03	85,508.69	205,512.56	163.91
3,094.14	66,932.91	2,139.58	847,523.30	363,690.62	12,801.17
13,960.59	40,228.86	1,000.17	137,604.51	2,016,639.69	8,930.62
		1,000.00	75,768.97	681,177.13	
17,054.73	107,161.77	4,139.75	1,060,896.78	3,061,507.44	21,731.79
12,000.00	35,900.00	8,000.00	310,000.00	883,758.57	4,500.00
				246,700.77	
12,422.34	41,000.46	9,564.13	662,983.60	1,829,488.34	14,871.12
24,422.34	76,900.46	17,564.13	972,983.60	2,959,947.68	19,371.12
43,483.47	184,426.30	21,706.91	2,119,389.07	6,226,967.68	41,266.82
5.0	0.3	0.0	6.7	1.9	0.6

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Owen Sound	Paisley	Palmerston	Paris	Parkhill
Population.....	14,014	585	1,379	4,531	802
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	30,235.43			13,070.15	
Substation equipment.....	39,406.72	1,923.46	1,346.28	49,995.08	
Distribution system—overhead....	143,800.28	15,072.33	33,585.57	58,722.50	21,390.68
Distribution system—underground.					
Line transformers.....	77,356.08	5,082.92	12,373.71	32,577.16	11,273.20
Meters.....	80,021.79	3,965.72	9,938.55	23,929.06	5,536.06
Street light equipment, regular....	31,556.58	1,071.77	6,855.26	14,112.53	1,896.65
Street light equipment, ornamental					
Miscellaneous construction expense	2,515.92	782.88	830.11	1,082.93	1,944.49
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	404,892.80	27,899.08	64,929.48	193,489.41	42,041.08
Bank and cash balance.....		715.64	1,246.75	3,143.67	
Securities and investments.....	32,500.00	5,500.00	16,100.00	42,500.00	5,000.00
Accounts receivable.....	3,676.86	63.34	589.05	307.50	386.83
Inventories.....	26,674.68		2,603.73		
Sinking fund on local debentures.					
Equity in H-E.P.C. systems.....	332,313.06	16,026.27	63,035.14	163,053.06	27,939.79
Other assets.....			19.58	158.39	240.00
Total assets.....	800,057.40	50,204.33	148,523.73	402,652.03	75,607.70
LIABILITIES					
Debenture balance.....					
Accounts payable.....	22,727.59	141.63	674.94	478.40	586.43
Bank overdraft.....	275.13				78.44
Other liabilities.....	8,269.07	67.42	250.20		139.07
Total liabilities.....	31,271.79	209.05	925.14	478.40	803.94
RESERVES					
For equity in H-E.P.C. systems....	332,313.06	16,026.27	63,035.14	163,053.06	27,939.79
For depreciation.....	114,742.30	8,080.34	20,593.14	93,184.21	11,891.88
Other reserves.....	285.02	1,000.00	319.84	120.22	2,700.00
Total reserves.....	447,340.38	25,106.61	83,948.12	256,357.49	42,531.67
SURPLUS					
Debentures paid.....	107,718.00	16,000.00	27,000.00	92,000.00	14,630.02
Local sinking fund.....					
Operating surplus.....	213,727.23	8,888.67	36,650.47	53,816.14	17,642.07
Total surplus.....	321,445.23	24,888.67	63,650.47	145,816.14	32,272.09
Total liabilities, reserves and surplus.	800,057.40	50,204.33	148,523.73	402,652.03	75,607.70
Percentage of net debt to total assets.	6.7	0.6	1.1	0.2	1.7

“A”—Continued

Hydro Municipalities as at December 31, 1946

Penetan- guishene 3,894	Perth 4,265	Peterborough 32,242	Petrolia 2,684	Picton 3,542	Plattsville P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,288.05	5,109.34	82,688.86	37,707.52	10,944.23	.....
7,161.13	6,961.44	131,251.87	5,956.75	2,004.66	.....
55,512.25	50,031.23	413,458.25	52,287.96	45,276.06	4,932.39
.....
23,441.51	32,753.43	187,371.79	37,716.26	20,272.51	2,432.95
21,154.05	25,713.44	161,785.10	18,735.96	24,628.40	2,945.32
4,040.41	5,408.88	68,629.57	7,110.70	10,601.26	158.29
.....
796.79	5,263.70	14,169.17	6,246.18	4,042.59	571.56
.....
.....	23,354.70	.....	.....	.....	.....
114,394.19	154,596.16	1,059,354.61	165,761.33	117,769.71	11,040.51
4,691.89	14,015.52	25,446.86	50.00	.....	2,685.41
40,000.00	82,500.00	315,000.00	15,000.00	51,500.00	9,500.00
1,267.74	4,512.62	54,894.44	3,089.94	1,429.94	64.47
158.56	16,687.84	35,596.64	3,396.31	7,733.62	.....
.....	.....	24,191.76	.....	.....	.....
91,967.97	104,273.63	505,787.84	144,101.49	81,956.92	13,557.02
.....	.....	171.73	320.00	.....	.....
252,480.35	376,585.77	2,020,443.88	331,719.07	260,390.19	36,847.41
.....
.....	19,116.66	53,000.00	.....	.....	.....
230.76	.....	45,274.08	1,285.64	377.33	24.42
.....	.....	.....	1,125.40	4,162.82	.....
964.50	3,112.98	465.00	1,227.56	4,505.52	.....
1,195.26	22,229.64	98,739.08	3,638.60	9,045.67	24.42
91,967.97	104,273.63	505,787.84	144,101.49	81,956.92	13,557.02
58,829.61	78,593.44	309,410.71	50,750.85	30,794.79	5,253.39
16,888.55	4,535.61	1,237.30	122.45	14,468.91	.....
167,686.13	187,402.68	816,435.85	194,974.79	127,220.62	18,810.41
36,982.95	89,283.34	447,610.67	50,000.00	5,730.32	5,237.00
.....	.....	24,191.76	.....	.....	.....
46,616.01	77,670.11	633,466.52	83,105.68	118,393.58	12,775.58
83,598.96	166,953.45	1,105,268.95	133,105.68	124,123.90	18,012.58
252,480.35	376,585.77	2,020,443.88	331,719.07	260,390.19	36,847.41
0.7	8.2	6.6	1.9	5.3	0.1

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Point Edward 1,360	Port Colborne 7,187	Port Credit 2,250	Port Dalhousie 1,747	Port Dover 2,073
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		30,326.10	675.00		248.75
Substation equipment.....					
Distribution system—overhead..	24,835.25	91,726.92	42,705.25	24,617.22	42,508.97
Distribution system—underground.					
Line transformers.....	8,906.84	36,634.03	17,523.51	15,782.39	22,372.54
Meters.....	7,644.35	32,135.65	16,090.41	14,595.42	15,061.40
Street light equipment, regular...	3,762.49	5,307.16	5,533.94	1,553.53	3,597.31
Street light equipment, ornamental		16,611.59			
Miscellaneous construction expense	1,325.02	13,136.48	2,388.86	2,346.40	1,994.55
Steam or hydraulic plant.....					
Old plant.....		9,929.60		6,018.38	
Total plant.....	46,473.95	235,807.53	84,916.97	64,913.34	85,783.52
Bank and cash balance.....	3,468.32	603.85	3,104.88	7,658.31	1,856.44
Securities and investments.....	21,000.00	115,000.00	7,500.00	12,000.00	
Accounts receivable.....	1,500.51	240.93	1,117.43	1,120.58	2,259.85
Inventories.....	1,033.84	2,597.97		251.25	229.28
Sinking fund on local debentures...					
Equity in H-E.P.C. systems.....	97,246.03	146,480.90	61,802.90	56,226.52	39,677.28
Other assets.....		133.30		18.16	21.67
Total assets.....	170,722.65	500,864.48	158,442.18	142,188.16	129,828.04
LIABILITIES					
Debenture balance.....		7,113.61	895.22		
Accounts payable.....	859.06	212.08	313.88	381.10	141.00
Bank overdraft.....					
Other liabilities.....	405.40	20,587.83	1,194.07	1,333.85	1,294.00
Total liabilities.....	1,264.46	27,913.52	2,403.17	1,714.95	1,435.00
RESERVES					
For equity in H-E.P.C. systems...	97,246.03	146,480.90	61,802.90	56,226.52	39,677.28
For depreciation.....	20,367.97	68,247.18	25,118.24	13,764.01	22,276.65
Other reserves.....	4,272.20	37,460.62	7,917.84	214.16	
Total reserves.....	121,886.20	252,188.70	94,838.98	70,204.69	61,953.93
SURPLUS					
Debentures paid.....	17,000.00	138,886.39	13,604.78	22,500.00	29,000.00
Local sinking fund.....					
Operating surplus.....	30,571.99	81,875.87	47,595.25	47,768.52	37,439.11
Total surplus.....	47,571.99	220,762.26	61,200.03	70,268.52	66,439.11
Total liabilities, reserves and surplus.	170,722.65	500,864.48	158,442.18	142,188.16	129,828.04
Percentage of net debt to total assets.	1.7	3.3	2.5	2.0	1.6

“A”—Continued

Hydro Municipalities as at December 31, 1946

Port Elgin	Port Hope	Port McNicoll	Port Perry	Port Rowan	Port Stanley
1,559	4,898	869	1,288	616	896
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
111.25	11,691.21	369.08			1,574.60
	3,100.00		2,564.65		
28,649.14	59,778.72	13,154.27	21,361.75	11,827.17	27,930.40
7,655.37	27,870.61	2,358.40	6,408.39	4,895.47	15,569.44
10,404.88	33,139.43	4,246.00	6,216.70	3,103.05	14,351.62
3,262.76	4,076.62	696.26	1,861.50	1,034.13	2,292.67
50.41	7,322.31	590.68	135.61	745.53	6,211.36
4,213.00					
54,346.81	146,978.90	21,414.69	38,548.60	21,605.35	67,930.09
6,601.42	8,767.30		1,758.06	174.10	2,706.26
11,500.00	35,000.00	1,000.00	11,000.00	5,000.00	22,000.00
219.25	756.72	259.42	262.02	43.52	389.14
	6,005.80				
21,939.79	97,110.60	9,133.17	26,682.54	10,293.74	59,638.95
94,607.27	294,619.32	31,807.28	78,251.22	37,116.71	152,664.44
11,950.16				904.75	
3,480.22	27.20	342.17	206.87		191.72
		1,155.23			
	7,863.55	238.40	548.00	235.00	301.42
15,430.38	7,890.75	1,735.80	754.87	1,139.75	493.14
21,939.79	97,110.60	9,133.17	26,682.54	10,293.74	59,638.95
14,474.72	40,169.33	6,711.89	15,620.56	6,210.06	23,296.31
					5,075.23
36,414.51	137,279.93	15,845.06	42,303.10	16,503.80	88,010.49
30,049.84	79,000.00	7,300.00	19,881.66	10,095.25	18,950.00
12,712.54	70,448.64	6,926.42	15,311.59	9,377.91	45,210.81
42,762.38	149,448.64	14,226.42	35,193.25	19,473.16	64,160.81
94,607.27	294,619.32	31,807.28	78,251.22	37,116.71	152,664.44
21.2	4.0	7.6	1.5	4.2	0.5

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Prescott	Preston	Priceville	Princeton	Queenston
Population.....	3,194	6,701	P.V.	P.V.	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	2,761.54		68.00		
Substation equipment.....		57,211.70			
Distribution system—overhead....	43,784.47	95,475.42	6,127.61	4,526.47	8,868.77
Distribution system—underground.					
Line transformers.....	22,421.03	62,807.50	1,211.66	3,881.23	3,729.12
Meters.....	22,470.39	47,317.97	808.60	1,810.54	2,042.89
Street light equipment, regular....	2,302.03	6,891.81	317.88	207.93	498.05
Street light equipment, ornamental					
Miscellaneous construction expense	676.55	12,238.85	833.90	75.03	2,515.97
Steam or hydraulic plant.....					
Old plant.....		32,126.75			
Total plant.....	94,416.01	314,070.00	9,367.65	10,501.20	17,654.80
Bank and cash balance.....	14,115.53	125.00	534.56	1,660.43	999.04
Securities and investments.....	7,000.00	43,000.00	2,500.00	7,000.00	7,500.00
Accounts receivable.....	777.92	3,430.25	34.00	46.09	284.08
Inventories.....		8,555.96			
Sinking fund on local debentures.					
Equity in H-E.P.C. systems.....	74,955.69	370,506.68	1,374.56	14,038.64	10,005.74
Other assets.....		1.49			
Total assets.....	191,265.15	739,689.38	13,810.77	33,246.36	36,443.66
LIABILITIES					
Debenture balance.....		5,690.73			327.70
Accounts payable.....	462.20	462.99		44.24	0.40
Bank overdraft.....		505.54			
Other liabilities.....	460.40	1,522.75			65.00
Total liabilities.....	922.60	8,182.01		44.24	393.10
RESERVES					
For equity in H-E.P.C. systems....	74,955.69	370,506.68	1,374.56	14,038.64	10,005.74
For depreciation.....	61,438.24	164,828.79	4,232.31	3,708.90	6,250.53
Other reserves.....		427.76			
Total reserves.....	136,393.93	535,763.23	5,606.87	17,747.54	16,256.27
SURPLUS					
Debentures paid.....	12,170.99	147,109.27	7,000.00	3,550.00	9,172.30
Local sinking fund.....					
Operating surplus.....	41,777.63	48,634.87	1,203.90	11,904.58	10,621.99
Total surplus.....	53,948.62	195,744.14	8,203.90	15,454.58	19,794.29
Total liabilities, reserves and surplus.	191,265.15	739,689.38	13,810.77	33,246.36	36,443.66
Percentage of net debt to total assets.	0.8	2.2	0.0	0.2	1.5

“A”—Continued

Hydro Municipalities as at December 31, 1946

Renfrew	Richmond	Richmond Hill	Ridgetown	Ripley	Riverside	Rockwood
5,781	450	1,458	1,948	433	5,938	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,393.89			3,883.13		11,371.12	79.00
30,406.52		600.00	1,024.24			
46,812.88	7,061.44	16,348.61	26,863.17	10,886.67	94,680.66	9,339.10
40,641.00	2,135.28	13,103.59	12,970.07	5,607.47	32,419.28	3,823.65
32,771.25	1,974.93	8,272.65	11,364.13	2,710.23	33,503.61	4,026.93
22,446.92	194.48	1,338.88	7,058.99	975.93		731.82
			1,431.73		19,163.24	
5,650.00	612.67		2,333.45	1,234.38	9,608.77	389.38
496,554.65						
684,677.11	11,978.80	39,663.73	66,928.91	21,414.68	200,746.68	18,389.88
2,456.93	158.32	353.29	2,987.52	2,925.78	2,375.88	1,952.96
		11,500.00	14,000.00		32,000.00	3,600.00
15,732.64	263.24	474.78	437.71	6.33	1,600.04	
			562.60		5,541.56	143.50
433.19	4,840.84	31,099.61	61,501.36	11,894.97	118,698.43	15,909.62
703,299.87	17,241.20	83,091.41	146,418.10	36,241.76	360,962.59	39,995.96
78,567.21	1,039.17			2,747.97		868.52
5,329.75	171.13	317.83	1,131.27		205.24	72.25
	81.87	472.24	2,316.73	194.83	21,326.56	168.72
83,896.96	1,292.17	790.07	3,448.00	2,942.80	21,531.80	1,109.49
433.19	4,840.84	31,099.61	61,501.36	11,894.97	118,698.43	15,909.62
123,346.80	3,018.14	4,344.22	22,391.39	6,061.49	61,497.01	8,855.26
3,769.42		3,069.37	9,713.45		12,571.77	
127,549.41	7,858.98	38,513.20	93,606.20	17,956.46	192,767.21	24,764.88
432,669.52	5,460.83	12,200.00	19,455.99	11,223.97	82,500.00	3,631.48
59,183.98	2,629.22	31,588.14	29,907.91	4,118.53	64,163.58	10,490.11
491,853.50	8,090.05	43,788.14	49,363.90	15,342.50	146,663.58	14,121.59
703,299.87	17,241.20	83,091.41	146,418.10	36,241.76	360,962.59	39,995.96
11.9	10.4	1.5	2.4	12.1	1.1	4.6

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Rodney	Rosseau	Russell	St. Catharines	St. Clair Beach
Population.....	731	134	P.V.	34,559	235
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				31,162.35	
Substation equipment.....				199,583.84	
Distribution system—overhead...	12,389.18	7,857.44	8,449.70	312,115.74	10,675.26
Distribution system—underground.					
Line transformers.....	4,400.57	2,314.23	2,070.00	223,140.05	3,594.68
Meters.....	4,725.70	1,317.86	2,147.11	166,159.70	2,678.81
Street light equipment, regular...	3,533.02	623.60	644.70	25,218.61	618.31
Street light equipment, ornamental				29,486.71	
Miscellaneous construction expense	837.45	1,067.16	1,209.25	6,103.89	40.00
Steam or hydraulic plant.....					
Old plant.....				16,000.00	
Total plant.....	25,885.92	13,180.29	14,520.76	1,008,970.89	17,607.06
Bank and cash balance.....	1,483.14	1,972.82	1,416.88	5,371.93	
Securities and investments.....	6,200.00	2,500.00	6,000.00	413,000.00	5,500.00
Accounts receivable.....	3.31	56.86	946.75	55,332.75	132.02
Inventories.....				27,853.43	
Sinking fund on local debentures...					
Equity in H-E.P.C. systems.....	19,596.98	5,570.67	8,145.00	1,035,940.22	9,982.89
Other assets.....				459.92	
Total assets.....	53,169.35	23,280.54	31,029.39	2,546,929.14	33,221.97
LIABILITIES					
Debenture balance.....		6,327.07		15,750.00	
Accounts payable.....	162.53	51.09	277.39	57,510.03	50.16
Bank overdraft.....				4,128.43	497.75
Other liabilities.....	295.00	40.00	20.00	37,683.64	395.00
Total liabilities.....	457.53	6,418.16	297.39	115,072.10	942.91
RESERVES					
For equity in H-E.P.C. systems...	19,596.98	5,570.57	8,145.00	1,035,940.22	9,982.89
For depreciation.....	6,499.62	4,082.23	4,465.86	340,843.67	6,819.10
Other reserves.....	73.15	68.74		53,045.79	34.74
Total reserves.....	26,169.75	9,721.54	12,610.86	1,429,829.68	16,836.73
SURPLUS					
Debentures paid.....	8,500.00	6,672.93	10,000.00	286,272.91	6,341.45
Local sinking fund.....					
Operating surplus.....	18,042.07	467.91	8,121.14	715,754.45	9,100.88
Total surplus.....	26,542.07	7,140.84	18,121.14	1,002,027.36	15,442.33
Total liabilities, reserves and surplus.	53,169.35	23,280.54	31,029.39	2,546,929.14	33,221.97
Percentage of net debt to total assets.	1.4	36.2	1.3	5.8	4.1

"A"—Continued

Hydro Municipalities as at December 31, 1946

St. George P.V.	St. Jacobs P.V.	St. Marys 3,643	St. Thomas 18,190	Sarnia 20,060	Scarborough Twp. V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	19,194.78	79,143.04	147,184.76	21,446.77
.....	.....	33,232.02	136,643.39	219,374.18	18,848.71
6,575.98	8,138.87	73,190.91	134,401.86	247,076.74	378,651.38
.....	.....	.....	77,111.75	61,943.90	.....
3,919.64	4,927.21	42,701.63	74,273.19	105,706.03	140,527.28
3,945.45	4,120.97	30,337.29	85,949.93	104,148.58	106,885.95
489.63	396.19	6,812.08	23,887.02	31,405.18	24,205.85
.....	.....	.....	3,693.04	8,271.83	.....
133.35	591.47	10,160.05	4,691.07	57,844.40	4,771.11
.....	.....	20,696.85	.....	.....	.....
15,064.05	18,174.71	236,325.61	619,794.29	982,955.60	695,337.05
2,408.25	2,327.00	25.00	1,071.19	300.00	22,078.86
9,750.00	10,000.00	3,000.00	152,000.00	100,000.00	170,000.00
26.94	12.92	1,006.95	20,909.41	16,703.79	17,310.80
.....	.....	6,881.23	33,436.40	38,719.73	.....
20,052.65	24,548.74	185,826.64	710,710.04	908,450.66	292,323.09
.....	.....	192.04	.....	75.98	275.19
47,301.89	54,973.37	433,257.47	1,537,921.33	2,047,205.76	1,197,324.99
.....	.....	8,685.20	.....	.....	.....
8.21	.....	222.98	1,084.30	2,491.23	18,614.40
.....	.....	7,262.01	.....	3,122.93	.....
405.00	.....	1,386.50	19,964.54	21,904.07	57,569.86
413.21	.....	17,556.69	21,048.84	27,518.23	76,184.26
20,052.65	24,548.74	185,826.64	710,710.04	908,450.66	292,323.09
4,965.60	5,329.07	87,084.04	265,603.29	270,003.18	207,065.91
2,000.00	.....	3,201.51	25,447.45	66,675.22	72,171.30
27,018.25	29,877.81	276,112.19	1,001,760.78	1,245,129.06	571,560.30
6,000.00	6,000.00	105,575.18	138,944.07	338,000.00	290,568.27
13,870.43	19,095.56	34,013.41	376,167.64	436,558.47	259,012.16
19,870.43	25,095.56	139,588.59	515,111.71	774,558.47	549,580.43
47,301.89	54,973.37	433,257.47	1,537,921.33	2,047,205.76	1,197,324.99
1.5	0.0	7.1	2.5	1.7	8.4

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Seaforth	Shelburne	Simcoe	Smiths Falls	Smithville
Population.....	1,724	1,132	6,063	7,736	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,836.39	800.00	11,201.89	9,646.57	.....
Substation equipment.....	8,930.07	566.60	41,527.90	4,765.59	.....
Distribution system—overhead.....	32,416.73	15,794.18	66,864.81	101,621.60	11,579.32
Distribution system—underground.....	.....	.....	1,412.24	.....	.....
Line transformers.....	15,925.89	9,897.88	52,233.86	46,656.78	5,408.22
Meters.....	12,332.19	8,578.00	41,756.94	40,999.81	4,742.10
Street light equipment, regular.....	5,789.27	1,106.93	22,800.72	9,793.86	1,687.68
Street light equipment, ornamental.....	.....	.....	.....	.....	.....
Miscellaneous construction expense.....	1,468.48	2,452.71	7,122.51	2,032.89	274.59
Steam or hydraulic plant.....	.....	.....	927.92	.....	1,878.98
Old plant.....	.....	.....	.....	.....	.....
Total plant.....	78,699.02	39,196.30	245,848.79	215,517.10	25,570.89
Bank and cash balance.....	2,471.48	879.42	2,047.65	8,888.11	970.91
Securities and investments.....	13,000.00	15,500.00	62,500.00	98,000.00	12,500.00
Accounts receivable.....	1,923.01	92.84	1,571.94	1,547.47	12.93
Inventories.....	1,596.00	.....	10,900.69	7,211.92	201.00
Sinking fund on local debentures.....	.....	.....	.....	.....	.....
Equity in H-E.P.C. systems.....	87,031.49	27,730.34	166,913.05	152,362.30	2,582.67
Other assets.....	.....	.....	.....	.....	.....
Total assets.....	184,721.00	83,398.90	489,782.12	483,526.90	41,838.40
LIABILITIES	.....	.....	.....	.....	.....
Debenture balance.....	7,815.60	.....	5,544.49	.....	3,804.04
Accounts payable.....	115.18	98.31	10,187.93	505.84	59.60
Bank overdraft.....	.....	.....	.....	.....	.....
Other liabilities.....	613.78	97.45	1,885.14	432.50	75.00
Total liabilities.....	8,544.56	195.76	17,617.56	938.34	3,938.64
RESERVES	.....	.....	.....	.....	.....
For equity in H-E.P.C. systems.....	87,031.49	27,730.34	166,913.05	152,362.30	2,582.67
For depreciation.....	25,097.80	20,552.84	56,872.36	115,910.08	8,040.58
Other reserves.....	422.90	1,500.00	29,000.00	5,490.28	.....
Total reserves.....	112,552.19	49,783.18	252,785.41	273,762.66	10,623.25
SURPLUS	.....	.....	.....	.....	.....
Debentures paid.....	27,184.40	19,920.00	69,890.41	122,787.33	11,195.96
Local sinking fund.....	36,439.85	13,499.96	149,488.74	86,038.57	16,080.55
Operating surplus.....	.....	.....	.....	.....	.....
Total surplus.....	63,624.25	33,419.96	219,379.15	208,825.90	27,276.51
Total liabilities, reserves and surplus.....	184,721.00	83,398.90	489,782.12	483,526.90	41,838.40
Percentage of net debt to total assets.....	8.7	0.3	5.5	0.3	10.0

“A”—Continued

Hydro Municipalities as at December 31, 1946

Southampton 1,598	Springfield 409	Stamford Twp. V.A.	Stayner 1,028	Stirling 1,006	Stouffville 1,340
\$ c. 25.00	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
30,463.63	10,340.20	8,702.41 52,962.04 193,534.61	200.00 17,429.47	8,522.88 8,034.64 7,389.61	9,173.22 6,712.49 2,230.37
13,354.76	3,285.06	78,305.25	8,883.57	6,201.80	9,173.22
11,604.25	2,405.60	57,096.34	8,047.76	6,370.34	6,712.49
3,747.16	629.47	13,388.95	1,197.86	3,203.33	2,230.37
162.16	892.63	13,046.84	310.33	995.87	1,121.02
2,477.00		13,743.66			
61,833.96	17,552.96	430,780.10	36,068.99	40,718.47	36,227.78
850.56	2,049.00	2,540.42	722.76	9,177.48	789.25
8,500.00	5,500.00	26,000.00	11,000.00	12,500.00	11,500.00
139.71	166.40	16,163.82	252.85	551.25	23.14
		7,100.62		1,099.28	
20,658.81	12,594.79	145,578.78	24,689.96	13,645.92	25,365.36
		469.37			
91,983.04	37,863.15	628,633.11	72,734.56	77,692.40	73,905.53
2,178.49	356.83	25,417.10			
189.01	452.08	1,955.66			127.64
		3,338.99	1,992.63		
4.74	10.00	8,400.42	369.00	402.93	488.20
2,372.24	818.91	39,112.17	2,361.63	402.93	615.84
20,658.81	12,594.79	145,578.78	24,689.96	13,645.92	25,365.36
13,259.29	4,871.91	113,737.16	18,617.15	11,331.63	5,798.18
		44,154.32	41.17		4,350.96
33,918.10	17,466.70	303,470.26	43,348.28	24,977.55	35,514.50
30,821.44	9,143.17	214,861.07	9,867.59	10,000.00	14,673.90
24,871.26	10,434.37	71,189.61	17,157.06	42,311.92	23,101.29
55,692.70	19,577.54	286,050.68	27,024.65	52,311.92	37,775.19
91,983.04	37,863.15	628,633.11	72,734.56	77,692.40	73,905.53
3.3	3.2	8.1	4.9	0.6	1.3

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Stratford	Strathroy	Streetsville	Sunderland	Sutton
Population.....	17,092	3,001	707	P.V.	981
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	141,455.78	9,373.61	8,925.69		
Substation equipment.....	183,365.75	30,383.06	1,172.04		
Distribution system—overhead....	161,399.38	51,042.91	9,610.37	4,749.18	24,583.40
Distribution system—underground.	22,971.15				
Line transformers.....	112,828.95	30,056.85	8,793.71	1,841.08	12,164.49
Meters.....	99,610.44	18,957.33	5,035.23	2,636.83	8,639.47
Street light equipment, regular....	25,809.76	6,238.53	1,619.31	670.57	1,995.15
Street light equipment, ornamental					
Miscellaneous construction expense	23,004.07	2,200.84	951.88	142.22	1,637.64
Steam or hydraulic plant.....			10,641.55		
Old plant.....	31,520.00				675.00
Total plant.....	801,965.28	148,253.13	46,749.78	10,039.88	49,695.15
Bank and cash balance.....	67,834.94	13,277.82	4,021.03	1,386.43	1,005.57
Securities and investments.....	233,000.00	26,000.00	2,000.00	3,500.00	7,000.00
Accounts receivable.....	10,867.32	78.38	178.01	12.45	248.04
Inventories.....	12,637.01	1,075.32			
Sinking fund on local debentures..	30,822.94				
Equity in H-E.P.C. systems.....	836,581.19	129,460.33	5,972.20	14,223.65	25,279.00
Other assets.....	1,632.52				
Total assets.....	1,995,341.20	318,144.98	58,921.02	29,162.41	83,227.76
LIABILITIES					
Debenture balance.....	50,000.00	6,943.02			
Accounts payable.....	1,142.72	203.82	1,206.70	429.90	296.15
Bank overdraft.....					
Other liabilities.....	4,821.73	1,211.59	240.38	20.00	25.00
Total liabilities.....	55,964.45	8,358.43	1,447.08	449.90	321.15
RESERVES					
For equity in H-E.P.C. systems....	836,581.19	129,460.33	5,972.20	14,223.65	25,279.00
For depreciation.....	439,887.32	56,186.85	8,728.58	7,313.02	13,131.44
Other reserves.....	30,665.73	1,034.16	2,621.35	59.25	1,645.84
Total reserves.....	1,307,134.24	186,681.34	17,322.13	21,595.92	40,056.28
SURPLUS					
Debentures paid.....	405,800.00	46,945.83	17,545.08	4,770.00	26,000.00
Local sinking fund.....	30,822.94				
Operating surplus.....	195,619.57	76,159.38	22,606.73	2,346.59	16,850.33
Total surplus.....	632,242.51	123,105.21	40,151.81	7,116.59	42,850.33
Total liabilities, reserves and surplus.	1,995,341.20	318,144.98	58,921.02	29,162.41	83,227.76
Percentage of net debt to total assets.	4.9	4.4	2.7	3.0	0.6

“A”—Continued

Hydro Municipalities as at December 31, 1946

Swansea	Tara	Tavistock	Tecumseh	Teeswater	Thamesford	Thamesville
7,142	472	1,082	2,794	854	P.V.	734
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,577.66		3,752.33	1,232.16			681.69
89,628.25	12,107.55	14,532.07	43,457.72	330.31	8,874.95	14,245.10
58,265.19	3,668.91	9,576.82	13,005.66	7,135.07	4,420.97	5,766.60
38,889.35	2,453.70	7,346.37	16,733.34	4,642.94	3,783.98	5,203.95
14,874.07	2,721.65	1,152.93		1,495.82	556.49	2,376.70
11,059.81	1,429.96	1,257.55	4,760.95			
			2,566.58	1,741.36	614.02	266.30
				4,976.86		
218,294.33	22,381.77	37,618.07	81,756.41	38,438.75	18,250.41	28,540.34
2,785.66	685.27	431.59	932.60	955.05	935.09	463.66
55,000.00	10,500.00	11,500.00	12,000.00	11,000.00	3,000.00	16,500.00
1,418.03	37.13	8.23	1,993.92	15.00	.02	1,005.84
		560.03	347.82			
136,042.70	12,341.36	65,448.63	38,484.30	18,015.03	24,499.11	24,735.44
63.83						
413,604.55	45,945.53	115,566.55	135,515.05	68,423.83	46,684.63	71,245.28
46,131.60						
1,042.03	384.18	259.37	294.51	1.36	1,062.80	287.51
4,906.41			5,398.75	61.00	94.00	451.00
52,080.04	384.18	259.37	5,693.26	62.36	1,156.80	738.51
136,042.70	12,341.36	65,448.63	38,484.30	18,015.03	24,499.11	24,735.44
68,938.37	12,113.37	16,475.02	23,323.16	13,599.82	7,566.96	14,364.74
232.52		1,000.00	5,991.02	1,000.00		164.86
205,213.59	24,454.73	82,923.65	67,798.48	32,614.85	32,066.07	39,265.04
56,535.36	15,500.00	6,000.00	26,000.00	28,000.00	5,358.03	11,187.80
99,775.56	5,606.62	26,383.53	36,023.31	7,746.62	8,103.73	20,053.93
156,310.92	21,106.62	32,383.53	62,023.31	35,746.62	13,461.76	31,241.73
413,604.55	45,945.53	115,566.55	135,515.05	68,423.83	46,684.63	71,245.28
18.7	1.2	0.5	2.2	0.1	5.2	1.6

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Thedford	Thornbury	Thorndale	Thornton	Thorold
Population.....	598	786	P.V.	P.V.	5,517
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....					10,992.37
Substation equipment.....		4,404.73			2,572.33
Distribution system—overhead.....	11,351.78	11,214.16	4,740.50	6,877.71	45,682.51
Distribution system—underground.....					
Line transformers.....	7,418.28	7,972.84	2,347.94	1,764.80	27,497.99
Meters.....	3,529.48	5,632.26	2,346.02	1,076.25	27,116.94
Street light equipment, regular.....	1,578.90	1,035.00	181.19	433.25	3,480.11
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	1,767.23	108.93	148.95	300.35	1,745.54
Steam or hydraulic plant.....		36,000.00			
Old plant.....	433.78				
Total plant.....	26,079.45	66,367.92	9,764.60	10,452.36	119,087.79
Bank and cash balance.....		1,244.82		968.80	7,745.57
Securities and investments.....	12,000.00		3,500.00	2,500.00	85,800.00
Accounts receivable.....	243.47	24.20	447.37	5.36	185.80
Inventories.....					2,934.47
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	14,081.23	159.50	12,041.12	4,792.72	153,637.53
Other assets.....	1.95				51.25
Total assets.....	52,406.10	67,796.44	25,753.09	18,719.24	369,442.41
LIABILITIES					
Debenture balance.....		6,054.71			
Accounts payable.....	463.08	5,108.56		23.60	22.18
Bank overdraft.....	1,517.53		274.85		
Other liabilities.....	8.39	10.00	468.57		2,615.50
Total liabilities.....	1,989.00	11,173.27	743.42	23.60	2,637.68
RESERVES					
For equity in H-E.P.C. systems.....	14,081.23	159.50	12,041.12	4,792.72	153,637.53
For depreciation.....	6,612.48	2,328.96	5,776.37	7,263.57	45,771.81
Other reserves.....			441.37		
Total reserves.....	20,693.71	2,488.46	18,258.86	12,056.29	199,409.34
SURPLUS					
Debentures paid.....	16,500.00	49,945.29	3,086.48	7,500.00	5,000.00
Local sinking fund.....					
Operating surplus.....	13,223.39	4,189.42	3,664.33	†860.65	162,395.39
Total surplus.....	29,723.39	54,134.71	6,750.81	6,639.35	167,395.39
Total liabilities, reserves and surplus.....	52,406.10	67,796.44	25,753.09	18,719.24	369,442.41
Percentage of net debt to total assets.....	5.2	16.5	5.4	0.2	1.2

† Deficit.

"A"—Continued

Hydro Municipalities as at December 31, 1946

Tilbury 1,929	Tillsonburg 4,172	Toronto* 681,802	Toronto Twp. V.A.	Tottenham 455	Trafalgar Twp. V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,987.47	4,824.27	5,247,345.84	8,222.46		156.34
	21,899.54	14,846,116.88		358.50	839.61
19,691.77	57,339.58	7,075,879.37	242,538.26	10,187.22	39,506.12
		4,152,669.07			
15,478.50	33,751.65	3,807,651.32	106,623.01	2,138.12	18,925.59
10,376.46	27,982.03	3,217,069.48	67,434.51	3,210.86	10,655.15
1,400.88	13,107.95	483,350.31	7,262.17	1,121.95	192.54
1,430.37	2,021.20	2,187,353.26	8,103.05	1,509.32	1,942.38
			619.65	286.45	
60,365.45	160,926.22	41,017,435.53	440,803.11	18,812.42	72,217.73
3,311.07	1,087.36	1,044,015.47	7,494.43		1,026.85
21,000.00	38,500.00	11,478,600.00	43,000.00	1,000.00	13,000.00
102.65	1,971.91	2,042,978.10	2,164.32	51.43	1,534.67
7.69	3,416.79	533,912.44	13,674.71		
		4,082,011.46			
75,938.57	127,785.93	29,183,587.60	178,013.26	15,614.68	15,809.54
2.59	25.00	46,988.17			
160,728.02	333,713.21	89,429,528.77	685,149.83	35,478.53	103,588.79
	7,772.51	6,523,400.00	7,332.65	557.58	3,386.42
161.45	3.36	760,107.61	38,590.47	115.08	3,017.06
	8,203.13			120.65	
37.25	4,277.36	201,116.22	6,911.09	254.60	113.00
198.70	20,256.36	7,484,623.83	52,834.21	1,047.91	6,516.48
75,938.57	127,785.93	29,183,587.60	178,013.26	15,614.68	15,809.54
23,685.92	43,363.77	15,033,541.16	186,003.70	9,251.17	28,435.85
5,648.60	15,198.98	1,326,643.69	2,067.20		
105,273.09	186,348.68	45,543,772.45	366,084.16	24,865.85	44,245.39
14,000.00	38,227.49	23,773,142.76	96,667.35	12,409.52	25,501.14
		4,082,011.46			
41,256.23	88,880.68	8,545,978.27	169,564.11	†2,844.75	27,325.78
55,256.23	127,108.17	36,401,132.49	266,231.46	9,564.77	52,826.92
160,728.02	333,713.21	89,429,528.77	685,149.83	35,478.53	103,588.79
0.2	9.8	6.0	10.4	5.2	7.4

* Includes 1946 power adjustment and equity in H-E.P.C. system.

† Deficit.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Trenton	Tweed	Uxbridge	Victoria Harbour	Walkerton
Population.....	9,849	1,250	1,426	897	2,566
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	5,678.03				47.92
Substation equipment.....	49,167.01		2,657.65		
Distribution system—overhead.....	128,065.82	18,207.19	17,067.22	12,075.01	44,636.68
Distribution system—underground.....					
Line transformers.....	31,659.12	6,077.84	6,611.92	2,788.26	16,771.31
Meters.....	44,841.61	7,220.09	7,322.27	4,277.52	16,112.36
Street light equipment, regular.....	21,702.37	2,251.51	1,542.97	366.32	2,778.54
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	8,666.61		961.04	691.30	1,962.92
Steam or hydraulic plant.....					
Old plant.....					4,897.60
Total plant.....	289,780.57	33,756.63	36,163.07	20,198.41	87,207.33
Bank and cash balance.....	14,244.02	1,849.45	2,659.88	405.11	14,962.55
Securities and investments.....	105,500.00	12,000.00	9,000.00	4,000.00	20,000.00
Accounts receivable.....	179.50	1,749.81	215.44	108.51	208.51
Inventories.....	6,608.53	1,176.32	49.66		786.63
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	142,131.47	15,790.60	29,002.48	9,239.53	35,045.00
Other assets.....	300.04				
Total assets.....	558,744.13	66,322.81	77,090.53	33,951.56	158,210.02
LIABILITIES					
Debenture balance.....					21,886.73
Accounts payable.....	265.95	570.16	457.28	60.61	147.22
Bank overdraft.....					
Other liabilities.....	5,494.06	339.00	452.00		205.00
Total liabilities.....	5,760.01	909.16	909.28	60.61	22,238.95
RESERVES					
For equity in H-E.P.C. systems.....	142,131.47	15,790.60	29,002.48	9,239.53	35,045.00
For depreciation.....	79,301.48	3,714.40	10,727.04	7,308.25	20,310.96
Other reserves.....	26,500.00	1,937.58	2,484.37		37.15
Total reserves.....	247,932.95	21,442.58	42,213.89	16,547.78	55,393.11
SURPLUS					
Debentures paid.....	165,000.00	19,000.00	16,207.59	6,500.00	41,113.27
Local sinking fund.....					
Operating surplus.....	140,051.17	24,971.07	17,759.77	10,843.17	39,464.69
Total surplus.....	305,051.17	43,971.07	33,967.36	17,343.17	80,577.96
Total liabilities, reserves and surplus.....	558,744.13	66,322.81	77,090.53	33,951.56	158,210.02
Percentage of net debt to total assets.....	1.4	1.8	1.9	0.2	18.0

“A”—Continued

Hydro Municipalities as at December 31, 1946

Wallaceburg	Wardsville	Warkworth	Waterdown	Waterford	Waterloo	Watford
5,088	226	P.V.	966	1,375	9,452	938
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
48,683.90			200.00	1,323.44	19,548.90	333.36
12,857.49					118,329.21	
84,082.74	5,736.98	6,175.16	16,895.52	17,216.30	98,547.31	18,137.29
65,255.67	2,459.96	1,502.91	8,648.48	9,771.49	76,578.52	8,853.62
36,763.99	1,873.63	2,456.20	7,079.35	8,556.57	51,789.04	7,085.02
12,857.48	662.94	338.08	1,166.46	3,231.62	14,318.75	2,757.32
					3,106.80	
11,797.12	533.73	609.19	5.75	469.00	5,341.06	2,407.93
		3,618.02			23,880.17	
272,298.39	11,267.24	14,699.56	33,995.56	40,568.42	411,439.76	39,574.54
9,420.44	97.30	1,261.89	2,875.96	1,472.02	250.00	1,176.60
70,500.00	4,000.00	4,200.00	9,000.00	14,000.00	99,000.00	14,800.00
6,680.99	444.48	7.74	342.99	20.28	1,858.54	1,623.52
19,758.83				342.95	866.35	729.23
284,691.25	5,253.06	5,860.76	30,819.93	46,033.43	390,559.54	35,345.84
1.04			5.86			356.00
663,350.94	21,062.08	26,029.95	77,040.30	102,437.10	903,974.19	93,605.73
		4,962.48				
486.46	0.52		15.00	25.72	3,000.00	159.49
					9,191.36	
3,631.35		26.00	94.28		3,106.80	262.10
4,117.81	0.52	4,988.48	109.28	25.72	15,298.16	421.59
284,691.25	5,253.06	5,860.76	30,819.93	46,033.43	390,559.54	35,345.84
82,418.52	4,485.13	4,319.52	11,485.01	15,508.85	199,791.11	15,334.00
31,124.94	25.22			2,500.00	735.26	92.53
398,234.71	9,763.41	10,180.28	42,304.94	64,042.23	591,085.91	50,772.37
71,536.58	7,562.40	6,037.52	8,000.00	7,745.53	106,000.00	9,055.77
189,461.84	3,735.75	4,823.67	26,626.08	30,623.57	191,590.12	33,356.00
260,998.42	11,298.15	10,861.19	34,626.08	38,369.10	297,590.12	42,411.77
663,350.94	21,062.08	26,029.95	77,040.30	102,437.10	903,974.19	93,605.73
1.1	0.0	24.7	0.2	0.0	2.4	0.7

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Waubau- shene P.V.	Welland 15,780	Wellesley P.V.	Wellington 917	West Lorne 841
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		77,006.74		200.00	2,526.50
Substation equipment.....		117,054.79		499.80	
Distribution system—overhead.....	11,056.70	190,570.63	7,965.16	17,372.34	14,350.16
Distribution system—underground.....		8,044.90			
Line transformers.....	3,726.43	118,929.27	4,257.54	6,491.11	7,613.95
Meters.....	3,643.03	86,619.88	3,478.38	7,443.90	5,506.16
Street light equipment, regular.....	350.05	14,213.17	758.52	1,368.30	1,550.38
Street light equipment, ornamental.....		41,105.28			
Miscellaneous construction expense.....	265.83	11,648.88	140.04	1,281.48	421.67
Steam or hydraulic plant.....				2,477.92	
Old plant.....					
Total plant.....	19,042.04	665,193.54	16,599.64	37,134.85	31,968.82
Bank and cash balance.....	509.47	18,496.42	336.41	10.00	170.06
Securities and investments.....	700.00	238,634.52	6,000.00	12,000.00	6,000.00
Accounts receivable.....	779.32	2,986.50	3.00	23.11	96.61
Inventories.....		19,527.20			235.90
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	6,860.21	478,199.43	22,058.52	15,435.49	34,450.28
Other assets.....		0.38	0.46		
Total assets.....	27,891.04	1,430,379.99	44,998.03	64,603.45	72,921.67
LIABILITIES					
Debenture balance.....				1,394.06	
Accounts payable.....	2,004.53	1,121.80		53.42	406.13
Bank overdraft.....				888.96	
Other liabilities.....	600.00	53,962.84		46.25	107.10
Total liabilities.....	2,604.53	55,084.64		2,382.69	513.23
RESERVES					
For equity in H-E.P.C. systems.....	6,860.21	478,199.43	22,058.52	15,435.49	34,450.28
For depreciation.....	4,287.15	234,328.36	5,083.35	12,052.22	9,309.10
Other reserves.....	125.00	3,646.45			65.12
Total reserves.....	11,272.36	716,174.24	27,141.87	27,487.71	43,824.50
SURPLUS					
Debentures paid.....	3,500.00	275,000.00	7,500.00	15,605.94	8,000.00
Local sinking fund.....					
Operating surplus.....	10,514.15	376,779.11	10,356.16	19,127.11	20,583.94
Total surplus.....	14,014.15	651,779.11	17,856.16	34,733.05	28,583.94
Total liabilities, reserves and surplus.....	27,891.04	1,423,037.99	44,998.03	64,603.45	72,921.67
Percentage of net debt to total assets.....	12.4	1.5	0.0	4.8	1.3

"A"—Continued

Hydro Municipalities as at December 31, 1946

Weston 6,333	Westport 639	Wheatley 711	Whitby 4,595	Warton 1,682	Williams- burg P.V.	Winchester 959
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
13,373.31		52.50	13,468.70			299.85
65,655.63			34,288.16	333.57		
79,472.53	7,755.76	19,353.83	66,150.98	22,862.42	3,483.38	10,950.04
72,510.15	1,901.18	10,071.49	19,418.47	8,436.51	1,978.92	4,906.59
39,627.79	2,210.78	6,058.68	24,880.08	10,110.01	2,510.42	6,305.72
29,424.60	733.02	9,359.00	12,943.48	2,994.73	174.61	719.87
7,320.34	1,253.14	1,648.77	7,601.72	5,409.77	35.38	315.52
	1,713.00		1,340.13	1,870.35		1,100.00
307,384.35	15,566.88	46,544.27	180,091.72	52,017.36	8,182.71	24,597.59
952.22	785.14	25.00	7,201.31	6,040.70	1,840.21	4,199.63
31,500.00	5,000.00	2,500.00	57,000.00	19,000.00	23,000.00	10,500.00
2,406.78		427.25	1,252.23	1,019.85	362.49	372.68
915.75			633.78			
348,529.64	8,175.00	20,661.20	78,526.49	23,034.31	8,897.95	28,284.96
		6.90	18.47			
691,688.74	29,527.02	70,164.62	324,724.00	101,112.22	42,283.36	67,954.86
	5,360.02		2,651.68	15,232.61		
9.71		1,742.49	292.95	5,104.07		
276.75		690.49				
802.22	270.00	500.00	9,718.99	212.21	358.34	10.00
1,088.68	5,630.02	2,932.98	12,663.62	20,548.89	358.34	10.00
348,529.64	8,175.00	20,661.20	78,526.49	23,034.31	8,897.95	28,284.96
69,253.36	3,304.72	9,953.86	37,347.65	10,475.62	4,519.88	12,591.97
364.51		62.71		2,996.25	327.28	
418,147.51	11,479.72	30,677.77	115,874.14	36,506.18	13,745.11	40,876.93
70,032.44	9,639.98	13,000.00	73,960.82	22,167.39	2,750.00	10,650.00
202,420.11	2,777.30	23,553.87	122,225.42	21,889.76	25,429.91	16,417.93
272,452.55	12,417.28	36,553.87	196,186.24	44,057.15	28,179.91	27,067.93
691,688.74	29,527.02	70,164.62	324,724.00	101,112.22	42,283.36	67,954.86
0.3	26.4	5.9	5.2	26.3	1.1	0.0

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Concluded

Municipality.....	Windermere	Windsor	Wingham	Woodbridge
Population.....	118	117,539	2,155	1,128
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		492,772.37	21,654.35	
Substation equipment.....		1,456,591.07	4,863.91	
Distribution system—overhead.....	9,954.48	1,417,295.43	44,059.35	20,283.24
Distribution system—underground.....		240,244.08		
Line transformers.....	3,923.50	624,858.70	23,046.79	8,433.19
Meters.....	1,328.99	615,960.40	19,922.60	7,066.23
Street light equipment, regular.....	247.26	109,705.70	11,227.49	624.03
Street light equipment, ornamental.....		1,021,495.33		
Miscellaneous construction expense.....	525.65	180,273.21	7,193.00	697.35
Steam or hydraulic plant.....			14,711.99	
Old plant.....		166,440.66	12,320.02	
Total plant.....	15,979.88	6,325,636.95	158,999.50	37,104.04
Bank and cash balance.....	1,296.39	42,979.74		307.25
Securities and investments.....	3,600.00	1,466,616.45		13,000.00
Accounts receivable.....	24.64	152,754.23	5,455.57	2,242.77
Inventories.....		238,449.86	13,681.55	
Sinking fund on local debentures.....		86,791.48		
Equity in H-E.P.C. systems.....	3,861.40	4,413,572.74	57,088.97	47,207.21
Other assets.....				
Total assets.....	24,762.31	12,726,801.45	235,225.59	99,861.27
LIABILITIES				
Debenture balance.....	4,466.70	235,863.80	12,729.44	
Accounts payable.....	137.82	133,137.39	137.06	3,560.18
Bank overdraft.....			2,365.03	
Other liabilities.....		1,144,917.37	709.15	682.38
Total liabilities.....	4,604.52	1,513,918.56	15,940.68	4,242.56
RESERVES				
For equity in H-E.P.C. systems.....	3,861.40	4,413,572.74	57,088.97	47,207.21
For depreciation.....	5,249.23	1,915,974.67	44,956.84	14,664.98
Other reserves.....		565,028.23		5,200.00
Total reserves.....	9,110.63	6,894,575.64	102,045.81	67,072.19
SURPLUS				
Debentures paid.....	7,296.60	2,347,968.25	83,376.06	8,499.97
Local sinking fund.....		86,791.48		
Operating surplus.....	3,750.56	1,883,547.52	33,863.04	20,046.55
Total surplus.....	11,047.16	4,318,307.25	117,239.10	28,546.52
Total liabilities, reserves and surplus.....	24,762.31	12,726,801.45	235,225.59	99,861.27
Percentage of net debt to total assets.....	22.0	5.6	8.9	8.1

“A”—Continued

Hydro Municipalities as at December 31, 1946

Woodstock 12,916	Woodville 388	Wyoming 576	York Twp. V.A.	Zurich P.V.	SOUTHERN ONTARIO SYSTEM SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
66,555.59		50.00	79,010.22		11,051,303.05
135,109.53			345,701.72		26,016,993.86
145,972.29	3,621.98	12,139.31	853,391.22	7,525.29	26,378,365.91
					6,848,694.50
85,220.66	2,182.54	2,803.41	411,691.79	2,844.27	13,783,191.50
77,778.13	2,396.23	3,995.53	379,820.91	3,203.84	11,820,687.52
23,863.18	548.71	548.49	104,821.40	471.82	2,974,508.80
					1,555,698.39
12,224.52	251.91	842.52	85,759.15	331.37	3,697,117.07
					755,727.39
					658,421.95
546,723.90	9,001.37	20,379.26	2,260,196.41	14,376.59	105,540,709.94
	1,498.38	1,633.11		1,507.90	3,572,074.65
93,000.00	5,000.00	2,600.00	400,000.00	9,500.00	25,764,877.14
2,560.17	88.40	64.06	67,327.77	62.93	3,980,096.36
296.45			60,437.43		2,085,350.55
596,424.96	13,805.41	11,618.04	1,103,271.83	18,784.37	4,470,518.41
249.60					76,331,106.59
					289,749.28
1,239,255.08	29,393.56	36,294.47	3,891,233.44	44,231.79	222,034,482.92
3,418.59	587.01	811.13	46,820.61	372.79	8,735,685.51
1,833.72			73,264.40	134.53	2,175,505.13
9,512.14	22.00	108.56	54,848.24		298,300.09
			35,475.26	10.00	2,527,110.56
14,764.45	609.01	919.69	210,408.51	517.32	13,736,601.29
596,424.96	13,805.41	11,618.04	1,103,271.83	18,784.37	76,331,106.59
233,693.76	4,117.25	6,673.97	831,190.79	8,360.89	36,715,247.64
65,476.44	560.56	32.63	14,746.09		6,962,553.38
895,595.16	18,483.22	18,324.64	1,949,208.71	27,145.26	120,008,907.61
127,385.63	5,500.00	9,700.00	442,554.04	5,218.82	47,497,108.49
201,509.84	4,801.33	7,350.14	1,289,062.18	11,350.39	4,470,518.41
					36,321,347.12
328,895.47	10,301.33	17,050.14	1,731,616.22	16,569.21	88,288,974.02
1,239,255.08	29,393.56	36,294.47	3,891,233.44	44,231.79	222,034,482.92
2.3	4.2	3.7	7.5	2.0	5.5

STATEMENT

Balance Sheets of Electrical Departments of

THUNDER BAY SYSTEM

Municipality.....	Fort William	Nipigon Twp. V.A.	Port Arthur	THUNDER BAY SYSTEM SUMMARY
Population	30,590		25,373	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings	106,975.18	215.03	471,137.16	578,327.37
Substation equipment	161,497.37		311,881.37	473,378.74
Distribution system—overhead	270,729.53	19,829.42	550,418.03	840,976.98
Distribution system—underground				
Line transformers	118,787.87	5,520.11	137,423.28	261,731.26
Meters	107,706.09	5,116.53	132,360.21	245,182.83
Street light equipment, regular	50,956.17	2,473.06	84,688.53	138,117.76
Street light equipment, ornamental				
Miscellaneous construction expense	20,584.91	436.00	34,438.97	55,459.88
Steam or hydraulic plant			325,003.44	325,003.44
Old plant				
Total plant	837,237.12	33,590.15	2,047,350.99	2,918,178.26
Bank and cash balance		4,150.81		4,150.81
Securities and investments	270,300.00	11,000.00	871,012.67	1,152,312.67
Accounts receivable	37,878.48	100.21	46,955.38	84,934.07
Inventories	31,159.60		25,868.20	57,027.80
Sinking fund on local debentures	138,695.75			138,695.75
Equity in H-E.P.C. systems	1,171,934.65	11,761.25	3,155,534.36	4,339,230.26
Other assets	600.00	12.32	32,759.33	33,371.65
Total assets	2,487,805.60	60,614.74	6,179,480.93	8,727,901.27
LIABILITIES				
Debenture balance	250,000.00			250,000.00
Accounts payable		49.65	51,117.42	51,167.07
Bank overdraft	5,663.71		39,094.69	44,758.40
Other liabilities	39,257.79	231.24		39,489.03
Total liabilities	294,921.50	280.89	90,212.11	385,414.50
RESERVES				
For equity in H-E.P.C. systems	1,171,934.65	11,761.25	3,155,534.36	4,339,230.26
For depreciation	231,933.30	7,141.95	824,659.34	1,063,734.59
Other reserves	65,126.27	3,500.00	157,676.40	226,302.67
Total reserves	1,468,994.22	22,403.20	4,137,870.10	5,629,267.52
SURPLUS				
Debentures paid	124,209.11	10,000.00	642,100.00	776,309.11
Local sinking fund	138,695.75			138,695.75
Operating surplus	460,985.02	27,930.65	1,309,298.72	1,798,214.39
Total surplus	723,889.88	37,930.65	1,951,398.72	2,713,219.25
Total liabilities, reserves and surplus	2,487,805.60	60,614.74	6,179,480.93	8,727,901.27
Percentage of net debt to total assets	13.2	0.6	2.9	5.8

“A”—Concluded

Hydro Municipalities as at December 31, 1946

NORTHERN ONTARIO DISTRICTS

Capreol	North Bay	Sioux Lookout	Sudbury	NORTHERN ONTARIO DISTRICTS SUMMARY	ALL SYSTEMS GRAND SUMMARY
1,680	15,968	1,897	36,299		
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
450.00	57,230.13		143,014.90	200,695.03	11,830,325.45
9,730.32	72,546.26		206,294.45	288,571.03	26,778,943.63
13,664.22	162,932.22	9,619.12	405,380.19	591,595.75	27,810,938.64
					6,848,694.50
6,889.78	55,800.35	4,467.38	135,792.68	202,950.19	14,247,872.95
6,468.00	90,254.06	6,555.99	155,957.46	259,235.51	12,325,105.86
1,126.26	31,338.72	1,794.15	121,547.77	155,806.90	3,268,433.46
					1,555,698.39
577.76	33,083.93	621.59	15,942.75	50,226.03	3,802,802.98
					1,080,730.83
					658,421.95
38,906.34	503,185.67	23,058.23	1,183,930.20	1,749,080.44	110,207,968.64
364.93		7,485.45		7,850.38	3,584,075.84
7,500.00	30,000.00		197,500.00	235,000.00	27,152,189.81
1,041.93	24,715.32	2,663.95	39,732.60	68,153.80	4,133,184.23
	16,933.48	1,199.87	32,720.10	50,852.45	2,193,231.80
					4,609,214.16
56.50	405.82		2,500.27	2,962.59	80,670,336.85
					326,083.52
47,869.70	575,240.29	34,407.50	1,456,383.17	2,113,900.66	232,876,284.85
	9,000.00		54,898.09	63,898.09	9,049,583.60
399.75	2,845.91	935.70	36,415.15	40,596.51	2,267,268.71
	10,843.44		1,515.78	12,359.22	355,417.71
415.00	33,602.17	2,733.98	32,900.78	69,651.93	2,636,251.52
814.75	56,291.52	3,669.68	125,729.80	186,505.75	14,308,521.54
9,511.66	266,732.72	2,112.14	195,864.96	474,221.48	80,670,336.85
96.09	12,502.20	128.20	154,776.92	167,503.41	38,253,203.71
					7,356,359.46
9,607.75	279,234.92	2,240.34	350,641.88	641,724.89	126,279,900.02
19,000.00	231,000.00		412,440.44	662,440.44	48,935,858.04
18,447.20	8,713.85	28,497.48	567,571.05	623,229.58	4,609,214.16
					38,742,791.09
37,447.20	239,713.85	28,497.48	980,011.49	1,285,670.02	92,287,863.29
47,869.70	575,240.29	34,407.50	1,456,383.17	2,113,900.66	232,876,284.85
1.7	9.7	10.6	8.6	8.8	5.6

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig	Alexandria	Alliston
Population.....	1,976	P.V.	395	1,904	1,528
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	17,189.88	7,637.75	3,288.10	10,175.66	14,318.63
Commercial light service.....	7,847.63	2,001.91	1,238.82	6,803.90	9,901.58
Commercial power service.....	32,415.93	1,655.66	1,707.27	5,212.93	6,299.39
Municipal power.....	802.74			840.72	898.67
Street lighting.....	2,092.65	834.00	696.00	1,964.00	2,048.91
Merchandise.....					2.08
Miscellaneous.....	654.09	460.00	356.16	989.89	492.27
Total earnings.....	61,002.92	12,589.32	7,286.35	25,987.10	33,961.53
EXPENSES					
Power purchased.....	50,055.89	7,048.14	5,814.05	15,471.25	18,622.65
Substation operation.....	63.90				
Substation maintenance.....					
Distribution system, operation and maintenance.....	3,368.33	165.10	144.68	1,899.68	3,832.99
Line transformer maintenance.....	113.40	147.45		218.87	127.45
Meter maintenance.....	403.12	52.00	215.05	361.32	200.13
Consumers' premises expenses.....	20.44	53.27			422.89
Street lighting, operation and maintenance.....	434.98	103.96	60.57	368.12	275.68
Promotion of business.....	8.25				
Billing and collecting.....	1,165.29	587.10	413.91	1,049.01	1,325.13
General office, salaries and expenses..	1,370.13	145.25	85.59	1,235.66	674.58
Undistributed expenses.....	818.97	7.47	20.63	87.25	134.66
Truck operation and maintenance...	559.82			261.24	
Interest.....		9.84			269.47
Sinking fund and principal payments on debentures.....					2,160.50
Depreciation.....	1,910.00	640.00	410.00	1,280.00	1,209.00
Other reserves.....					
Total operating costs and fixed charges.....	60,292.52	8,959.58	7,164.48	22,232.40	29,255.13
Net surplus.....	710.40	3,629.74	121.87	3,754.70	4,706.40
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	596	177	162	461	452
Commercial light service.....	111	31	34	117	127
Power service.....	20	5	4	19	23
Total.....	727	213	200	597	602

“B”

Hydro Municipalities for Year Ended December 31, 1946

Almonte 2,250	Alvinston 611	Amherstburg 2,826	Ancaster Twp. V.A.	Apple Hill P.V.	Arkona 374	Arnprior 4,010
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
15,161.70	4,070.05	27,303.72	15,421.86	1,596.00	3,068.73	21,364.68
6,108.65	2,416.34	10,869.42	4,851.27	952.52	1,481.49	12,476.68
7,751.69	1,614.75	10,354.92	717.38	573.40	308.05	20,422.66
745.51	257.73		283.20			2,384.58
2,727.00	1,595.00	2,425.77	1,166.50	463.50	1,098.67	3,114.00
1,479.12		154.81				
1,806.24	330.00	1,435.77	246.10	103.37	109.60	1,681.47
35,779.91	10,283.87	52,544.41	22,686.31	3,688.79	6,066.54	61,444.07
14,706.44	6,308.04	35,227.05	12,928.29	2,006.50	3,196.26	35,918.61
5,895.64						
301.39						
1,451.45	467.53	2,039.16	2,704.09	218.00	425.95	2,347.24
68.69		356.65	200.24		44.12	299.21
618.71		596.70	391.70	41.99	90.68	967.81
39.42		1,508.06	197.41			92.18
202.73	109.53	1,073.57	438.60	72.06	100.37	309.17
		12.50				
1,629.20	397.30	996.32	2,199.65	268.27	313.56	2,677.12
1,302.02	278.67	1,072.67	902.37	60.91	178.61	2,654.90
1,168.42	47.16	304.46	232.55		6.31	58.35
995.79		170.70	671.43			
1,804.35		146.73	283.53			633.07
3,234.15		2,617.48	978.27			3,147.73
3,692.00	619.00	1,890.00	898.00	163.00	318.00	1,726.00
37,110.40	8,227.23	48,012.05	23,026.13	2,830.73	4,673.86	50,831.39
	2,056.64	4,532.36		858.06	1,392.68	10,612.68
1,330.49			339.82			
689	225	791	408	72	126	957
110	58	153	51	21	36	226
24	5	16	9	2	2	24
823	288	960	468	95	164	1,207

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Arthur	Athens	Aurora	Aylmer	Ayr
Population.....	922	714	3,004	2,475	718
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	6,065.38	4,517.93	27,581.97	18,586.36	6,678.58
Commercial light service.....	6,154.57	1,959.99	10,407.14	14,159.42	2,740.52
Commercial power service.....	1,473.10	810.41	19,432.64	8,889.22	2,466.35
Municipal power.....	430.92		2,037.58	830.04	
Street lighting.....	1,395.00	1,204.00	4,184.97	3,374.00	1,192.00
Merchandise.....					
Miscellaneous.....	277.50	254.55	360.00	1,025.73	105.00
Total earnings.....	15,796.47	8,746.88	64,004.30	46,864.77	13,182.45
EXPENSES					
Power purchased.....	8,615.28	5,746.65	43,718.13	29,331.13	8,842.03
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,127.73	358.14	2,075.33	3,360.61	650.64
Line transformer maintenance.....		15.10	235.06	167.64	11.04
Meter maintenance.....	172.45	18.24	689.82	37.30	38.30
Consumers' premises expenses.....			2,547.77	334.54	41.21
Street lighting, operation and maintenance.....	357.66	114.13	942.03	552.33	191.89
Promotion of business.....					
Billing and collecting.....		289.16	1,673.70	1,524.81	643.63
General office, salaries and expenses..	823.48	122.47	1,218.64	1,229.02	98.14
Undistributed expenses.....	44.48		464.61	411.62	42.77
Truck operation and maintenance.....			465.94	386.43	
Interest.....	268.69	181.46		188.08	92.11
Sinking fund and principal payments on debentures.....	1,518.21	997.67		1,416.98	330.08
Depreciation.....	957.00	427.00	1,873.00	2,776.00	540.00
Other reserves.....					
Total operating costs and fixed charges.....	13,884.98	8,270.02	55,904.03	41,716.49	11,521.84
Net surplus.....	1,911.49	476.86	8,100.27	5,148.28	1,660.61
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	267	185	833	794	239
Commercial light service.....	88	43	125	160	49
Power service.....	7	1	18	23	7
Total.....	362	229	976	977	295

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1946

Baden P.V.	Barrie 10,583	Bath 323	Beachville P.V.	Beamsville 1,338	Beaverton 842	Beeton 507
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,766.95	95,058.56	3,335.88	4,420.80	12,911.30	8,548.25	3,871.53
2,186.46	53,826.57	793.45	670.21	5,219.97	3,659.74	2,158.99
10,378.90	42,282.15		18,931.09	2,412.22	1,416.95	435.11
	4,244.88					
738.00	6,885.05	364.00	517.00	2,165.58	1,455.33	1,368.00
	69.15					15.61
201.83	3,185.07		479.62	759.49	280.00	340.00
18,272.14	205,551.43	4,493.33	25,018.72	23,468.56	15,360.27	8,189.24
14,748.21	121,368.24	2,437.69	19,461.93	14,624.19	10,757.17	5,100.00
	2,552.12					
	264.10					
131.29	12,119.00	118.97	65.81	591.82	764.50	367.54
8.00	583.88		49.35		47.78	
26.03	2,579.06	18.15	119.26		45.56	198.40
41.25	4,576.80		51.03	331.10	249.38	
106.39	1,219.32	39.55	156.28	298.85	247.22	125.41
293.76	5,457.18	217.91	393.75	1,214.43	865.77	315.39
240.01	3,638.97	112.18	195.21	413.27	699.46	123.16
17.18	1,571.38		10.60	15.23	25.30	
	986.31					
	96.35	196.17		1.45		134.83
	1,926.84	431.43				842.91
689.00	12,128.00	201.00	580.00	1,231.00	1,069.00	561.00
16,301.12	171,067.55	3,773.05	21,083.22	18,721.34	14,771.14	7,768.64
1,971.02	34,483.88	720.28	3,935.50	4,747.22	589.13	420.60
170	2,646	82	173	425	344	154
34	449	14	22	76	68	37
3	68	0	4	7	8	5
207	3,163	96	199	508	420	196

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Belle River	Belleville	Blenheim	Bloomfield	Blyth
Population.....	845	15,967	1,873	624	632
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	7,001.08	116,981.29	11,082.26	3,639.80	4,305.78
Commercial light service.....	3,764.91	69,292.45	11,449.74	2,351.05	2,347.01
Commercial power service.....	172.79	51,470.48	8,450.27	1,402.35	1,147.89
Municipal power.....	1,249.47	5,024.35	1,483.22		
Street lighting.....	1,411.48	11,265.06	2,913.00	845.00	1,382.62
Merchandise.....		8,817.47	695.89		
Miscellaneous.....	186.99	5,796.64	1,016.75	335.00	301.75
Total earnings.....	13,786.72	268,647.74	37,091.13	8,573.20	9,485.05
EXPENSES					
Power purchased.....	8,588.06	175,605.20	21,761.88	5,415.25	5,807.76
Substation operation.....		2,768.24			
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,177.49	3,599.50	871.53	243.70	695.25
Line transformer maintenance.....	252.14	383.25	138.34	28.50	57.00
Meter maintenance.....	540.99	2,240.64	62.06	56.81	161.82
Consumers' premises expenses.....	74.58	1,908.05	307.42		26.75
Street lighting, operation and maintenance.....	430.81	2,799.33	1,272.18	106.93	127.52
Promotion of business.....		159.61	13.50		
Billing and collecting.....	945.99	4,811.50	1,267.59	262.12	480.50
General office, salaries and expenses..	604.07	6,545.28	1,803.95	140.48	147.50
Undistributed expenses.....	95.44	4,461.50	7.18	1.77	79.62
Truck operation and maintenance.....		1,067.15			
Interest.....				95.25	
Sinking fund and principal payments on debentures.....				487.98	
Depreciation.....	1,243.00	12,029.00	2,904.00	434.00	445.00
Other reserves.....					
Total operating costs and fixed charges.....	13,952.57	218,378.25	30,409.63	7,272.79	8,028.72
Net surplus.....		50,269.49	6,681.50	1,300.41	1,456.33
Net loss.....	165.85				
NUMBER OF CONSUMERS					
Domestic service.....	349	4,111	584	185	198
Commercial light service.....	58	668	156	40	56
Power service.....	4	122	17	7	6
Total.....	411	4,901	757	232	260

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

*Bobcay- geon 977	Bolton 621	Bothwell 574	Bowmanville 3,847	Bradford 1,075	Braeside 405	Brampton 6,157
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,247.83	5,619.72	3,171.64	36,544.41	8,617.49	1,980.83	55,799.70
3,034.29	2,277.42	2,415.66	13,118.73	6,836.63	401.82	24,656.00
431.01	3,665.12	1,163.70	55,241.94	5,142.69	5,394.13	22,749.60
	131.62	137.49		426.05		2,804.80
500.00	1,127.61	1,225.02	3,991.51	1,404.00	408.75	6,862.85
			4,595.50			65.35
64.90	443.55	556.19	4,654.41	285.15		2,025.34
9,278.03	13,265.24	8,669.70	118,146.50	22,712.01	8,185.53	114,963.64
2,395.62	8,726.85	6,410.86	77,227.71	13,085.61	4,807.56	88,435.14
1,800.00						
69.01			38.42			718.13
569.73	628.94	506.65	4,611.26	1,443.56	482.70	4,130.97
	133.50		152.13	244.33		436.10
69.93		119.91	1,279.64	169.01	24.57	943.69
	72.14	5.21	1,326.12	383.02	4.42	626.46
218.77	111.80	283.87	400.13	342.61	41.43	820.17
			152.44			15.00
388.62	388.32	331.26	3,824.20	578.74	414.61	2,455.08
229.51	354.61	356.73	3,831.97	630.32	112.67	2,293.80
	14.16	1.76	1,741.20	263.37		247.52
				228.22		489.68
955.64				259.62	231.90	
1,436.22				1,440.05	209.58	
1,303.00	535.00	495.00	3,564.00	919.00	133.00	4,529.00
9,436.05	10,965.32	8,511.25	98,149.22	19,987.46	6,462.44	106,140.74
	2,299.92	158.45	19,997.28	2,724.55	1,723.09	8,822.90
158.02						
409	207	196	1,190	301	96	1,688
76	49	61	187	79	9	293
6	13	8	28	14	2	58
491	269	265	1,405	394	107	2,039

* 6 months' operation.

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Brantford	Brantford Twp. V.A.	Brechin	Bridgeport	Bridgen
Population.....	34,267		P.V.	P.V.	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	201,669.25	50,803.95	1,828.79	5,697.35	2,393.51
Commercial light service.....	107,025.89	7,532.38	945.94	1,694.88	1,971.67
Commercial power service.....	316,961.70	8,480.80	763.86	2,329.69	2,433.16
Municipal power.....	9,897.09				
Street lighting.....	34,342.77	5,958.16	476.00	876.00	794.88
Merchandise.....					
Miscellaneous.....	11,351.87	1,636.49	15.00	212.45	271.83
Total earnings.....	681,248.57	74,411.78	4,029.59	10,810.37	7,865.05
EXPENSES					
Power purchased.....	523,256.08	50,883.49	2,273.53	7,607.22	5,311.60
Substation operation.....	10,252.47	161.46			
Substation maintenance.....	1,501.48				
Distribution system, operation and maintenance.....	9,574.09	3,283.43	215.22	290.31	378.80
Line transformer maintenance.....	771.57	288.34		8.25	8.60
Meter maintenance.....	8,527.88	1,343.33		182.65	2.50
Consumers' premises expenses.....	14,737.67	660.21		70.38	
Street lighting, operation and main- tenance.....	5,604.06	1,372.15	153.73	88.92	35.00
Promotion of business.....	114.64				
Billing and collecting.....	9,476.61	2,527.92		565.35	448.49
General office, salaries and expenses..	12,704.03	3,250.56	407.76	32.02	192.94
Undistributed expenses.....	6,176.39	1,147.90		6.93	8.23
Truck operation and maintenance.....	2,921.82	1,990.33			
Interest.....		2,989.93	124.68	111.90	
Sinking fund and principal payments on debentures.....		2,121.66	81.40	1,091.74	
Depreciation.....	27,373.00	5,256.00	126.00	465.00	383.00
Other reserves.....					
Total operating costs and fixed charges.....	632,991.79	77,276.71	3,382.32	10,520.67	6,769.16
Net surplus.....	48,256.78		647.27	289.70	1,095.89
Net loss.....		2,864.93			
NUMBER OF CONSUMERS					
Domestic service.....	8,768	1,899	63	192	131
Commercial light service.....	1,393	87	24	27	41
Power service.....	222	9	1	4	4
Total.....	10,383	1,995	88	223	176

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1946

Brighton	Brockville	Brussels	Burford	Burgessville	Burlington	Caledonia
1,726	11,077	748	P.V.	P.V.	4,347	1,435
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
14,182.39	75,372.43	5,557.63	6,078.84	1,969.90	49,590.71	7,898.15
5,383.38	32,724.88	3,250.63	2,456.79	709.44	21,907.32	6,084.06
4,563.31	88,531.48	3,478.63	1,987.92	1,172.03	19,689.40	2,632.23
	8,718.07				1,057.01	
2,028.12	8,679.75	1,296.00	701.03	312.00	2,544.44	2,109.45
520.00	5,991.09	474.24	240.48	115.29	342.60	317.67
26,677.20	220,017.70	14,057.13	11,465.06	4,278.66	95,131.48	19,041.56
16,061.99	158,352.68	8,519.75	8,604.93	3,762.01	49,229.56	12,060.79
	6,671.80					
	991.87					
2,248.96	4,216.75	689.98	1,071.28	66.99	3,031.34	1,279.88
99.06	237.16	133.68		28.44	129.24	195.99
282.42	2,349.27	89.07	127.20	14.52	1,616.88	737.15
28.13			44.06		1,244.81	281.15
488.76	1,744.28	134.02	181.77	86.38	665.92	443.51
						24.25
1,349.64	3,452.91		622.14		3,578.27	1,155.10
2,050.19	6,061.52	809.60	285.18	215.84	1,482.88	1,529.80
375.30	1,517.48	28.27	20.56	0.69	16.63	268.80
510.24	809.48					581.22
120.96		2.56		27.00	5,216.25	2.50
1,727.32					5,822.76	
1,169.00	6,485.00	625.00	722.00	231.00	4,157.00	1,185.00
26,511.97	192,890.20	11,031.93	11,679.12	4,432.87	76,191.54	19,745.14
165.23	27,127.50	3,025.20			18,939.94	
			214.06	154.21		703.58
612	3,229	259	241	64	1,370	466
114	412	67	44	18	162	109
9	76	8	4	3	21	12
735	3,717	334	289	85	1,553	587

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Campbell- ville P.V.	Canning- ton 812	Cardinal 1,639	Carleton Place 4,239	Cayuga 619
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	1,483.70	6,466.81	10,518.01	25,888.14	4,938.40
Commercial light service.....	531.13	3,261.37	2,565.14	12,280.52	4,845.36
Commercial power service.....	379.97	2,641.26	383.19	29,521.40	4,519.07
Municipal power.....				1,565.86	
Street lighting.....	400.00	1,279.44	1,141.50	4,962.00	1,530.16
Merchandise.....					
Miscellaneous.....	151.85	219.10	210.00	2,156.52	245.04
Total earnings.....	2,946.65	13,867.98	14,817.84	76,374.44	16,078.03
EXPENSES					
Power purchased.....	2,438.50	8,887.08	10,530.42	47,870.91	8,032.39
Substation operation.....				111.99	
Substation maintenance.....					
Distribution system, operation and maintenance.....	79.75	533.98	904.48	4,145.95	565.08
Line transformer maintenance.....			53.60	378.78	118.55
Meter maintenance.....		162.68	60.16	765.47	492.42
Consumers' premises expenses.....		151.91		243.30	
Street lighting, operation and main- tenance.....	34.00	269.31	133.26	777.14	267.20
Promotion of business.....				16.04	
Billing and collecting.....	79.00	565.84	678.75	2,034.21	727.33
General office, salaries and expenses..	82.08	624.13	182.81	4,665.24	577.44
Undistributed expenses.....	0.62		45.87	489.45	298.50
Truck operation and maintenance.....				509.29	
Interest.....			238.13	466.06	42.06
Sinking fund and principal payments on debentures.....			843.08	2,439.90	
Depreciation.....	117.00	716.00	646.00	3,304.00	670.00
Other reserves.....					
Total operating costs and fixed charges.....	2,830.95	11,910.93	14,316.56	68,217.73	11,790.97
Net surplus.....	115.70	1,957.05	501.28	8,156.71	4,287.06
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	56	274	399	1,128	200
Commercial light service.....	11	71	57	195	72
Power service.....	1	10	3	19	9
Total.....	68	355	459	1,342	281

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

Chatham	Chatsworth	Chesley	Chesterville	Chippawa	Clifford	Clinton
18,033	338	1,548	1,047	1,251	431	2,091
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
115,812.31	2,696.83	11,042.95	6,149.52	8,841.97	3,258.98	15,527.06
118,586.44	1,467.51	6,012.72	4,795.90	2,450.84	2,271.35	9,218.38
101,173.09		7,675.99	4,573.92	187.70	707.28	4,677.12
7,462.51		823.14		965.13		1,578.15
22,276.06	559.00	2,370.96	1,131.00	2,207.27	970.00	2,791.00
6,725.12						980.59
5,396.48	91.49	613.86	698.65	416.69	150.28	1,263.80
377,432.01	4,814.83	28,539.62	17,348.99	15,069.60	7,357.89	36,036.10
202,307.02	4,181.70	19,251.16	11,227.91	8,576.21	5,140.66	23,367.08
8,920.34						
6,021.21						100.00
16,625.34	131.95	1,257.77	1,432.03	1,070.71	315.34	2,011.70
2,899.71		51.34	7.05	225.58	85.00	163.50
7,457.09	71.57	265.79	176.07	516.13	17.40	169.65
6,276.37		534.87		178.96	149.23	128.96
6,972.48	142.88	457.06	69.25	905.72	99.99	252.69
6,111.31				40.00		
12,333.55		818.31	609.29	893.60	273.10	1,172.07
19,639.26	298.89	662.49	505.90	914.71	106.79	2,701.99
7,736.03	15.98	60.20	27.02	124.96	18.82	157.44
4,345.99		84.09		226.72		96.46
3,747.10					269.46	
11,173.10					339.96	
23,343.00	254.00	1,160.00	502.00	1,096.00	287.00	1,629.00
12,000.00						
357,908.90	5,096.97	24,603.08	14,556.52	14,769.30	7,102.75	31,950.54
19,523.11		3,936.54	2,792.47	300.30	255.14	4,085.56
	282.14					
4,768	121	478	265	368	138	617
875	27	89	72	53	34	132
132	0	24	4	2	2	18
5,775	148	591	341	423	174	767

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Cobden	Cobourg	Colborne	Coldwater	Colling- wood
Population.....	611	4,996	907	595	6,835
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,520.38	46,285.97	8,603.17	4,326.02	38,183.26
Commercial light service.....	2,836.99	26,254.06	5,529.83	1,962.78	18,284.20
Commercial power service.....	2,555.96	30,283.28	930.44	3,567.47	34,297.84
Municipal power.....		2,005.93	232.49		1,701.20
Street lighting.....	740.50	5,869.32	1,524.00	894.50	4,005.00
Merchandise.....		232.45	4,012.41		6.00
Miscellaneous.....	63.78	1,965.81	141.24	105.12	1,929.08
Total earnings.....	9,717.61	112,896.82	20,973.58	10,855.89	98,406.58
EXPENSES					
Power purchased.....	5,873.07	64,381.14	8,308.56	5,553.77	62,334.49
Substation operation.....					558.47
Substation maintenance.....					
Distribution system, operation and maintenance.....	561.65	3,518.27	1,923.32	605.57	4,570.68
Line transformer maintenance.....	33.20	307.20	18.20		713.81
Meter maintenance.....	86.33	833.70	178.53	156.80	1,340.55
Consumers' premises expenses.....		545.64	630.68	66.56	1.20
Street lighting, operation and main- tenance.....	183.86	1,665.41	249.75	197.68	248.48
Promotion of business.....					
Billing and collecting.....	522.44	4,388.26	1,195.37	686.41	2,799.67
General office, salaries and expenses..	105.00	4,514.46	897.02	195.53	1,298.01
Undistributed expenses.....		1,219.46	144.56		685.32
Truck operation and maintenance.....		441.73	263.57		509.17
Interest.....	81.84	1,286.40	343.40		
Sinking fund and principal payments on debentures.....	819.68	5,986.75	820.51		
Depreciation.....	243.00	6,040.00	575.00	613.00	4,136.00
Other reserves.....					
Total operating costs and fixed charges.....	8,510.07	95,128.42	15,548.47	8,075.32	79,195.85
Net surplus.....	1,207.54	17,768.40	5,425.11	2,780.57	19,210.73
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	179	1,511	294	167	1,713
Commercial light service.....	54	256	78	50	283
Power service.....	3	53	8	4	56
Total.....	236	1,820	380	221	2,052

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

Comber	Cookstown	Cottam	Courtright	Creemore	Dashwood	Delaware
P.V.	P.V.	P.V.	386	631	P.V.	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,505.69	2,977.23	3,091.13	1,878.94	4,496.33	2,762.31	2,586.48
2,155.34	1,640.74	1,712.41	861.72	2,400.39	1,331.26	948.87
3,128.16	1,494.78	962.86	.....	1,317.56	1,402.91	.....
738.00	855.00	490.90	974.64	869.76	505.98	288.00
349.69	330.48	159.20	645.00	184.02	237.86	76.80
8,876.88	7,298.23	6,416.50	236.75	9,268.06	6,240.32	3,900.15
6,067.42	3,695.28	3,799.74	2,511.65	6,522.16	4,478.89	2,588.09
551.71	236.67	367.36	116.02	436.88	79.89	96.61
42.88	.....	3.75	.....	.....	.....	.....
82.83	49.35	22.88	4.50	191.41	239.44	.....
209.78	215.19	7.00	37.35	315.31	25.84	63.94
352.63	307.60	521.44	193.82	69.47	68.20	.....
362.37	86.48	117.94	38.30	387.24	310.21	148.57
10.69	.....	6.30	5.96	106.29	174.12	57.64
.....	87.31	39.26	.....	.....	1.28	.....
.....	641.40	713.86	.....	.....	16.75	.....
448.00	480.00	615.00	199.00	383.00	221.74	.....
.....	.....	.....	.....	.....	222.00	239.00
8,128.31	5,799.18	6,214.53	3,106.60	8,411.76	5,838.36	3,193.85
748.57	1,499.05	201.97	1,490.45	856.30	401.96	706.30
132	130	146	107	192	107	76
46	36	28	23	53	27	16
7	4	5	1	3	3	0
185	170	179	131	248	137	92

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Delhi	Deseronto	Dorchester	Drayton	Dresden
Population.....	2,063	1,271	P.V.	509	1,532
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	16,222.26	10,366.71	3,302.75	4,367.92	9,236.34
Commercial light service.....	14,188.62	4,581.89	1,125.74	2,751.46	8,886.63
Commercial power service.....	6,180.75	1,692.25	742.62	1,319.81	8,044.18
Municipal power.....		1,238.62			696.41
Street lighting.....	3,178.57	1,686.00	760.00	960.00	2,233.44
Merchandise.....	841.98				2,212.41
Miscellaneous.....	980.79	400.78	230.02	236.45	421.98
Total earnings.....	41,592.97	19,966.25	6,161.13	9,635.64	31,731.39
EXPENSES					
Power purchased.....	20,248.51	9,271.68	3,880.82	6,453.18	17,522.67
Substation operation.....		90.00			
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,979.28	1,744.91	234.81	347.29	2,739.27
Line transformer maintenance.....	216.39	25.25		153.69	136.19
Meter maintenance.....	233.30	191.84	96.33	127.24	449.61
Consumers' premises expenses.....	361.09		86.34	86.79	574.87
Street lighting, operation and maintenance.....	333.06	292.25	88.64	403.63	1,011.94
Promotion of business.....	23.25				1.00
Billing and collecting.....	1,829.01	900.68	313.42		1,165.68
General office, salaries and expenses..	1,796.27	1,343.37	89.03	613.46	1,244.20
Undistributed expenses.....	585.16	227.21		19.85	110.91
Truck operation and maintenance.....	292.77	602.81			772.52
Interest.....	2,473.89			87.85	
Sinking fund and principal payments on debentures.....	3,690.47			614.25	
Depreciation.....	1,974.00	664.00	318.00	542.00	1,187.00
Other reserves.....	1,500.00				
Total operating costs and fixed charges.....	37,536.45	15,354.00	5,107.39	9,449.23	26,915.86
Net surplus.....	4,056.52	4,612.25	1,053.74	186.41	4,815.53
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	666	410	158	175	514
Commercial light service.....	171	63	30	66	139
Power service.....	10	10	2	4	16
Total.....	847	483	190	245	669

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

Drumbo	Dublin	Dundalk	Dundas	Dunnville	Durham	Dutton
P.V.	P.V.	705	5,588	4,342	1,976	812
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,014.23	1,752.10	5,066.60	30,294.70	16,280.12	9,203.86	3,724.35
1,331.85	1,319.16	3,983.41	20,123.60	16,628.02	6,024.45	2,846.09
814.57	1,589.25	3,200.94	42,684.62	19,253.46	4,565.20	3,740.46
			668.30	2,551.49	747.38	
533.00	550.00	1,199.00	5,838.35	3,891.34	1,669.36	1,030.44
174.25	44.49	312.50	826.03	1,368.46	503.29	400.94
5,867.90	5,255.00	13,762.45	100,435.60	59,972.89	22,713.54	11,742.28
3,960.45	3,161.21	7,848.68	69,758.90	39,959.20	13,989.92	8,391.70
			800.56	790.50		
331.14	160.80	1,192.95	6,789.90	3,527.54	1,963.17	1,503.05
			1,076.82	320.43	71.85	
3.85	7.05	187.06	2,538.97	1,081.59	359.66	257.46
			990.46		146.96	102.00
95.63	81.13	169.02	1,895.77	1,077.19	493.95	156.52
				10.25		
353.97			1,688.74	1,597.30	1,056.84	788.04
51.20	418.98	825.04	2,306.52	1,626.89	834.31	302.14
1.16	6.86	38.19	939.99	237.30	91.11	
			893.40	394.43	218.28	
				425.94		
				4,351.76		
293.00	310.00	471.00	4,334.00	3,079.00	1,084.00	545.00
5,090.40	4,146.03	10,731.94	94,014.03	58,479.32	20,310.05	12,045.91
777.50	1,108.97	3,030.51	6,421.57	1,493.57	2,403.49	
						303.63
97	69	223	1,499	1,102	485	242
30	28	79	212	258	115	69
1	2	7	42	30	19	11
128	99	309	1,753	1,390	619	322

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	East York Twp. V.A.	Elmira	Elmvale	Elmwood
Population.....		2,182	P.V.	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	327,857.81	17,267.45	4,185.21	1,505.65
Commercial light service.....	33,909.86	10,754.91	2,273.38	991.33
Commercial power service.....	50,268.59	26,638.40	3,067.93	1,978.38
Municipal power.....	4,604.23	3,037.42	290.28	
Street lighting.....	26,681.31	2,031.00	690.86	593.00
Merchandise.....				
Miscellaneous.....	1,577.65	1,874.92	382.16	91.33
Total earnings.....	444,899.45	61,604.10	10,889.82	5,159.69
EXPENSES				
Power purchased.....	265,707.15	41,628.90	5,518.60	3,990.32
Substation operation.....	3,702.36			
Substation maintenance.....		54.00		
Distribution system, operation and maintenance.....	14,124.76	2,203.79	536.11	228.51
Line transformer maintenance.....	1,302.94			
Meter maintenance.....	5,962.48	121.37	123.80	17.65
Consumers' premises expenses.....	5,487.11	320.50	322.46	
Street lighting, operation and main- tenance.....	4,335.34	770.75	232.80	3.55
Promotion of business.....				
Billing and collecting.....	19,566.32	1,405.59	551.55	
General office, salaries and expenses.....	17,162.87	1,795.50	345.22	298.58
Undistributed expenses.....	1,889.79	327.21		
Truck operation and maintenance.....		314.39		
Interest.....	73.25	163.90		
Sinking fund and principal payments on debentures.....				
Depreciation.....	26,052.00	2,172.00	612.00	238.00
Other reserves.....				
Total operating costs and fixed charges.....	365,366.37	51,277.90	8,242.54	4,776.61
Net surplus.....	79,533.08	10,326.20	2,647.28	383.08
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	12,928	583	205	81
Commercial light service.....	581	136	56	21
Power service.....	49	30	7	2
Total.....	13,558	749	268	104

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1946

Elora	Embro	Erieau	Erie Beach	Essex	Etobicoke Twp. V.A.	Exeter
1,167	455	223	22	1,920		1,794
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,503.02	4,613.27	5,684.64	1,663.59	10,226.95	276,967.43	17,277.78
4,974.79	1,104.60	1,850.81	226.25	11,006.04	36,191.77	10,348.47
5,272.30	1,920.61	5,321.96		8,423.31	71,674.52	5,275.91
				1,288.07	8,190.85	767.85
1,643.68	647.00	504.00		2,592.64	16,623.92	2,833.50
23.36						1,068.48
662.45	108.17	32.20	45.00	1,169.13	2,616.53	1,903.87
22,079.60	8,393.65	13,393.61	1,934.84	34,706.14	412,265.02	39,475.86
15,029.94	5,636.64	6,971.48	1,084.47	20,669.12	283,702.26	26,394.65
					9.36	
1,620.60	208.30	133.40	63.15	2,414.42	11,385.60	1,544.46
25.20		2.04		61.00	2,961.71	205.97
138.05	180.66	5.96	5.06	191.36	1,530.60	166.90
102.16	211.69	14.35	5.40	5.00	9,653.44	247.44
405.07	198.96	110.25		207.61	1,013.82	535.02
				20.00		
1,007.50	450.27	380.04	129.52	1,903.13	17,481.68	1,365.69
498.17	129.87	655.91	210.81	2,465.67	12,372.08	2,946.89
259.02		2.49	0.39	502.11		102.51
227.24				242.14		206.20
			15.84	591.95	2,340.32	
			271.86	956.16	10,525.66	
1,030.00	448.00	751.00	142.00	1,771.00	21,229.00	1,440.00
			18.90			
20,342.95	7,464.39	9,026.92	1,947.40	32,000.67	374,205.53	35,155.73
1,736.65	929.26	4,366.69		2,705.47	38,059.49	4,320.13
			12.56			
369	137	223	85	550	7,572	576
69	32	14	3	134	395	133
6	3	4	0	21	60	17
444	172	241	88	705	8,027	726

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Fergus	Finch	Flesherton	Fonthill	Forest
Population.....	2,624	328	361	1,009	1,679
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	21,333.92	2,969.22	2,513.40	8,098.42	16,494.60
Commercial light service.....	9,270.99	2,238.00	2,197.20	2,156.75	9,294.96
Commercial power service.....	20,373.22	286.37	667.48	594.39	5,884.37
Municipal power.....	691.76			176.72	1,322.53
Street lighting.....	2,427.50	507.00	631.00	1,338.42	2,467.80
Merchandise.....			1.44		82.83
Miscellaneous.....	804.20	206.09	190.00	119.46	843.23
Total earnings.....	54,901.59	6,206.68	6,200.52	12,484.16	36,390.32
EXPENSES					
Power purchased.....	42,750.14	4,595.36	3,317.71	6,278.73	22,125.72
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	3,804.53	338.32	246.86	337.79	3,959.60
Line transformer maintenance.....	863.17			8.70	54.75
Meter maintenance.....	526.75	165.18	122.71	137.36	368.74
Consumers' premises expenses.....	206.75	133.52		122.92	417.46
Street lighting, operation and maintenance.....	743.29	185.47	70.51	147.00	563.14
Promotion of business.....	27.59				
Billing and collecting.....	1,424.17	282.92		715.68	1,019.20
General office, salaries and expenses..	1,496.17	85.54	494.92	550.32	1,702.64
Undistributed expenses.....	311.65			23.95	189.22
Truck operation and maintenance....	358.20				137.64
Interest.....	89.52	67.13		43.63	
Sinking fund and principal payments on debentures.....	873.39	543.16		1,586.33	
Depreciation.....	2,797.00	416.00	312.00	861.00	1,434.00
Other reserves.....					
Total operating costs and fixed charges.....	56,272.32	6,812.60	4,564.71	10,813.41	31,972.11
Net surplus.....			1,635.81	1,670.75	4,418.21
Net loss.....	1,370.73	605.92			
NUMBER OF CONSUMERS					
Domestic service.....	790	125	136	312	550
Commercial light service.....	115	43	46	21	152
Power service.....	15	1	2	5	21
Total.....	920	169	184	338	723

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1946

Forest Hill	Galt	Georgetown	Glencoe	Goderich	Grand Valley
13,960	14,703	2,468	703	4,728	594
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
223,122.61	121,136.88	27,526.61	4,960.23	39,170.46	3,811.82
33,662.55	71,032.08	10,876.69	5,368.90	20,007.08	2,536.42
2,785.69	164,476.14	43,387.84	2,379.02	19,275.16	2,543.89
361.56	4,643.27	701.63	1,496.33	3,033.23	
9,673.58	17,816.00	3,172.91	2,201.82	5,604.07	932.00
	5,855.71			743.26	
9,499.92	5,658.15	937.31	1,197.18	1,951.76	323.34
279,105.91	390,618.23	86,602.99	17,603.48	89,785.02	10,147.47
175,278.72	290,854.77	63,425.51	9,653.86	58,269.17	7,325.00
	6,641.18			2,275.72	
364.43	2,923.95				
12,132.07	6,038.21	3,051.81	1,057.82	3,231.72	729.49
95.73	408.10	732.76	91.80	250.25	
1,097.57	4,952.71	671.27	85.97	1,091.65	216.34
7,433.23	4,534.25		231.84	205.11	
828.24	4,136.64	542.87	238.98	1,316.91	110.23
	155.60				
6,531.45	4,241.74	2,363.25	576.07	2,970.18	
6,748.10	10,704.47	1,633.18	874.01	2,627.33	888.62
1,095.91	7,727.07	414.17	79.54	386.36	23.77
3,227.75	631.87	712.22		541.95	
8,690.65				873.58	
17,426.79				2,107.37	
10,032.00	22,951.00	3,453.00	944.00	5,331.00	591.00
250,982.64	366,901.56	77,000.04	13,833.89	81,478.30	9,884.45
28,123.27	23,716.67	9,602.95	3,769.59	8,306.72	263.02
3,867	4,827	906	246	1,390	193
300	507	136	75	269	51
28	143	27	12	27	8
4,195	5,477	1,069	333	1,686	252

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Granton	Gravenhurst	Grimsby	Guelph
Population.....	P.V.	2,485	1,993	23,225
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,420.61	14,572.42	19,796.98	139,407.56
Commercial light service.....	1,217.91	12,916.89	14,582.16	66,418.86
Commercial power service.....	149.77	18,378.95	12,574.20	151,402.72
Municipal power.....		863.24	2,498.64	14,473.01
Street lighting.....	370.00	2,302.46	3,625.92	20,690.71
Merchandise.....		41.87		
Miscellaneous.....	163.10	743.75	781.41	2,574.31
Total earnings.....	4,321.39	49,819.58	53,859.31	394,967.17
EXPENSES				
Power purchased.....	2,671.95	35,454.33	27,844.78	309,062.85
Substation operation.....				
Substation maintenance.....		69.01		6,759.38
Distribution system, operation and maintenance.....	225.05	4,462.84	1,107.35	9,963.20
Line transformer maintenance.....		102.56	0.94	823.84
Meter maintenance.....	5.57	326.85	11.12	4,757.54
Consumers' premises expenses.....		1,069.76	449.29	249.92
Street lighting, operation and maintenance.....	38.13	601.30	594.83	5,828.96
Promotion of business.....				75.31
Billing and collecting.....	504.28	1,260.96	2,246.59	9,605.14
General office, salaries and expenses.....	86.70	897.23	1,069.98	11,344.57
Undistributed expenses.....	84	298.18	36.19	1,093.79
Truck operation and maintenance.....		314.44		
Interest.....			550.27	
Sinking fund and principal payments on debentures.....				
Depreciation.....	219.00	2,142.00	2,091.00	25,490.00
Other reserves.....				
Total operating costs and fixed charges.....	3,751.52	46,999.46	36,002.34	385,054.50
Net surplus.....	569.87	2,820.12	17,856.57	9,912.67
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	87	663	682	5,823
Commercial light service.....	29	115	143	819
Power service.....	1	17	17	151
Total.....	117	795	842	6,793

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1946

Hagersville	Hamilton	Hanover	Harriston	Harrow	Hastings	Havelock
1,562	174,222	3,133	1,252	1,150	723	936
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,408.20	1,011,337.92	24,532.20	9,729.77	14,673.62	5,639.15	5,654.30
7,897.50	612,125.47	10,094.22	6,852.96	7,619.72	3,114.80	2,700.09
19,163.91	2,637,544.93	25,755.13	8,062.13	5,024.62	203.12	2,411.61
	91,084.32	278.08	398.98			
2,230.20	129,341.78	2,182.56	1,630.50	1,471.80	1,619.82	1,569.00
	6,161.56	23.05	120.38	99.69		
1,300.30	123,243.98	2,111.99	358.44	329.74	180.00	539.62
39,000.11	4,610,839.96	64,977.23	27,153.16	29,219.19	10,756.89	12,874.62
28,952.63	*3,110,511.20	38,221.56	19,392.60	20,323.69	6,104.77	8,267.10
	91,514.25					
	12,050.06					
3,150.13	54,278.70	3,234.17	1,381.64	1,244.00	708.77	1,067.36
345.31	9,614.84	171.76	33.06	0.15		7.78
561.17	33,888.41	620.26	290.72	39.76	21.28	
3.68	34,166.42	50.24	95.21	33.07		
513.29	21,649.17	375.96	345.32	537.41	234.46	297.37
	13,450.93			4.00		
1,043.84	99,636.66	1,828.19	902.41	1,673.62	619.11	740.02
954.79	74,511.82	1,608.07	494.14	137.19	188.90	362.12
365.90	47,282.41	411.77	70.82	5.79		
237.32		234.63	135.41			158.99
	18,175.00		81.95		482.82	
	202,166.67		519.87		1,274.45	
1,083.00	191,383.13	3,529.00	967.00	1,481.00	843.00	779.00
37,211.06	4,014,279.67	50,285.61	24,710.15	25,479.68	10,477.56	11,679.74
1,789.05	596,560.29	14,691.62	2,443.01	3,739.51	279.33	1,194.88
434	44,725	884	410	375	262	304
127	5,773	146	107	93	57	54
19	1,134	27	15	8	3	3
580	51,632	1,057	532	476	322	361

* Includes 1946 adjustment.

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Hensall	Hespeler	Highgate	Holstein	Humberstone
Population.....	631	2,936	304	P.V.	3,287
EARNINGS					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	5,364.38	20,593.02	2,099.21	1,032.06	12,950.85
Commercial light service.....	2,827.35	8,565.50	921.25	359.76	5,441.8
Commercial power service.....	3,602.73	60,279.03	1,569.26	572.67	6,818.01
Municipal power.....		945.40			
Street lighting.....	1,008.00	3,650.00	578.04	75.00	1,568.50
Merchandise.....					
Miscellaneous.....	397.35	2,195.82	155.67	172.50	990.33
Total earnings.....	13,199.81	96,228.77	5,323.43	2,211.99	27,768.97
EXPENSES					
Power purchased.....	9,904.84	71,186.78	3,871.75	890.61	14,867.18
Substation operation.....		417.88			
Substation maintenance.....					
Distribution system, operation and maintenance.....	660.88	4,150.94		93.41	1,516.75
Line transformer maintenance.....	2.40	43.10			67.50
Meter maintenance.....	9.35	496.27	15.57		405.15
Consumers' premises expenses.....		1,292.68			
Street lighting operation and maintenance.....	175.88	332.33	44.49	24.00	475.29
Promotion of business.....		1.25			
Billing and collecting.....	611.25	1,270.46	319.87		1,439.02
General office, salaries and expenses..	340.10	1,402.33	139.08	254.96	685.61
Undistributed expenses.....	27.57	737.11	10.83		39.67
Truck operation and maintenance.....		598.30			144.47
Interest.....	31.00	434.26			
Sinking fund and principal payments on debentures.....	652.05	1,571.80			
Depreciation.....	635.00	3,914.00	354.00	118.00	1,672.00
Other reserves.....					
Total operating costs and fixed charges.....	13,050.32	87,849.49	4,755.59	1,380.98	21,312.64
Net surplus.....	149.49	8,379.28	567.84	831.01	6,456.33
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	229	865	111	67	801
Commercial light service.....	58	97	32	14	89
Power service.....	17	33	6	2	14
Total.....	304	995	149	83	904

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

Huntsville	Ingersoll	Iroquois	Jarvis	Kemptville	Kincardine
2,750	5,826	910	557	1,200	2,337
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
18,928.90	38,254.62	8,584.40	3,086.72	9,992.77	16,965.75
15,057.59	20,861.25	3,896.81	2,318.35	7,056.91	9,719.00
14,429.81	45,340.04	843.24	3,821.12	4,544.98	13,579.90
1,472.45	2,265.06	1,049.90			1,387.55
2,774.00	4,863.74	1,044.32	858.00	1,786.00	4,545.00
	295.34			584.93	314.75
683.51	1,363.32	166.54	379.49	676.01	871.39
53,346.26	113,243.37	15,585.21	10,463.68	24,641.60	47,383.34
37,210.09	86,776.10	8,188.23	6,728.00	15,066.91	27,678.42
62.98	1,406.59				432.26
2,116.83	4,780.03	1,446.36	83.43	2,037.69	1,317.09
46.76	403.02	66.00	13.73	129.60	58.59
489.11	2,186.60	295.57	68.70	191.93	174.00
29.90	1,395.17			662.72	196.14
909.53	1,244.71	295.60	107.19	293.89	809.15
1,409.78	2,911.59	862.44	755.96	1,207.84	1,388.27
1,971.08	4,598.55	934.82	71.11	650.60	1,105.16
562.56	1,479.00	131.14	7.27	101.65	264.88
268.25	1,528.51	387.26		437.56	335.17
1,243.00	5,675.00	530.00	423.00	932.00	2,204.00
46,319.87	114,384.87	13,137.42	8,258.39	21,712.39	35,963.13
7,026.39		2,447.79	2,205.29	2,929.21	11,420.21
	1,141.50				
766	1,609	322	164	409	772
141	244	66	42	84	136
16	50	5	4	5	20
923	1,903	393	210	498	928

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Kingston	Kingsville	Kirkfield	Kitchener
Population.....	36,697	2,380	P.V.	36,165
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	230,238.63	16,717.61	1,038.37	268,870.93
Commercial light service.....	144,840.12	12,038.42	1,312.46	157,999.84
Commercial power service.....	160,127.46	5,193.96		439,105.62
Municipal power.....	16,023.63	1,010.65		37,483.68
Street lighting.....	22,778.79	2,786.48	432.00	34,613.20
Merchandise.....				
Miscellaneous.....	12,898.52	1,562.50	84.50	9,437.99
Total earnings.....	586,907.15	39,309.62	2,867.33	947,511.26
EXPENSES				
Power purchased.....	373,479.39	22,577.91	1,005.70	661,187.07
Substation operation.....	7,855.80			11,228.80
Substation maintenance.....	1,899.34			7,126.12
Distribution system, operation and maintenance.....	14,028.07	2,867.49	131.83	24,596.13
Line transformer maintenance.....	2,856.70	166.28		1,479.49
Meter maintenance.....	7,152.85	767.96		10,252.35
Consumers' premises expenses.....	2,388.71	55.31		2,915.63
Street lighting, operation and maintenance.....	6,237.65	1,024.39	84.87	9,423.66
Promotion of business.....	984.23	31.71		12.03
Billing and collecting.....	10,526.69	2,374.10		17,313.22
General office, salaries and expenses.....	21,370.86	1,691.77	242.85	19,435.29
Undistributed expenses.....	11,071.09	696.09		914.22
Truck operation and maintenance.....	5,690.55	223.24		
Interest.....	707.46	1,021.54		3,423.48
Sinking fund and principal payments on debentures.....	3,233.00	1,440.53		22,800.00
Depreciation.....	26,145.00	1,895.00	214.00	35,499.00
Other reserves.....	5,907.97			
Total operating costs and fixed charges.....	501,535.36	36,833.32	1,679.25	827,606.49
Net surplus.....	85,371.79	2,476.30	1,188.08	119,904.77
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	8,366	668	43	9,168
Commercial light service.....	1,089	172	18	1,136
Power service.....	194	25	0	293
Total.....	9,649	865	61	10,597

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

Lakefield	Lambeth	Lanark	Lancaster	La Salle	Leamington	Lindsay
1,372	P.V.	734	526	1,100	5,456	7,740
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,111.90	4,154.90	3,876.14	2,159.40	11,868.95	31,556.97	56,996.02
5,897.24	1,210.02	3,059.01	1,240.17	2,094.07	23,122.27	36,055.84
7,618.35	385.91	988.43	.....	805.10	29,652.15	37,184.21
.....	422.86	.....	.....	.....	2,211.51	2,801.67
1,800.00	763.00	611.00	512.00	804.00	7,228.84	6,576.41
714.02	107.28	.....	46.11	263.84	1,588.30	2,610.34
25,141.51	7,043.97	8,534.58	3,957.68	15,835.96	95,360.04	142,224.49
12,619.12	5,400.35	5,149.65	2,351.18	10,580.37	66,412.82	94,018.65
.....	.....	.....	.....	.....	523.86	.....
1,002.43	187.52	373.20	158.41	758.01	1,958.24	2,660.57
.....	.....	.....	.....	33.14	490.33	1,014.95
125.26	85.25	82.57	148.02	54.43	921.27	1,441.99
.....	.....	.....	.....	97.38	1.74	556.67
275.83	83.77	89.25	44.42	89.39	1,575.42	1,442.24
.....	.....	.....	.....	1.96	54.79	.....
685.61	348.20	382.19	269.18	855.20	3,033.47	5,131.35
899.62	83.71	144.85	130.72	370.79	4,791.20	7,730.96
84.34	.....	.....	.....	48.11	848.30	2,557.89
422.60	.....	.....	.....	.....	797.48	1,181.02
692.95	.....	.....	.....	.....	.....	1,204.98
1,872.41	.....	.....	.....	.....	.....	9,011.16
1,038.00	388.00	436.00	420.00	897.00	5,711.00	7,069.00
.....
19,718.17	6,576.80	6,657.71	3,521.93	13,785.78	87,119.92	135,021.43
5,423.34	467.17	1,876.87	435.75	2,050.18	8,240.12	7,203.06
.....
407	151	193	120	302	1,782	2,338
79	27	43	31	17	311	378
12	5	2	0	3	39	73
498	183	238	151	322	2,132	2,789

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Listowel	London	London Twp. V.A.	Long Branch	Lucan
Population.....	3,209	79,562		5,186	570
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	20,548.12	630,502.72	18,533.40	41,055.73	5,576.55
Commercial light service.....	14,010.51	255,230.07	2,500.79	8,318.65	3,042.57
Commercial power service.....	19,443.49	488,322.91	1,871.23	18,069.67	1,277.65
Municipal power.....	1,087.85	93,768.87		2,091.27	
Street lighting.....	4,794.96	56,031.02	1,299.50	5,286.45	1,408.02
Merchandise.....	82.71	7,271.03			
Miscellaneous.....	1,022.01	58,366.89	171.30	1,684.52	308.34
Total earnings.....	60,989.65	1,589,493.51	24,376.22	76,506.29	11,613.13
EXPENSES					
Power purchased.....	46,621.28	1,046,388.44	16,409.09	43,923.13	7,298.09
Substation operation.....		45,971.19			
Substation maintenance.....	764.35				
Distribution system, operation and maintenance.....	2,687.99	20,296.30	696.51	2,330.01	559.03
Line transformer maintenance.....	113.98	6,884.30		446.37	
Meter maintenance.....	730.00	28,708.97	82.72	174.95	535.91
Consumers' premises expenses.....	261.85	38,744.45	583.13	62.55	417.96
Street lighting operation and main- tenance.....	734.04	12,030.77	144.33	701.19	228.89
Promotion of business.....		141.51			
Billing and collecting.....	1,374.14	28,871.60	1,786.53	4,434.76	493.29
General office, salaries and expenses..	1,467.29	55,798.71	503.48	3,133.53	420.44
Undistributed expenses.....	155.10	46,504.28		14.01	73.30
Truck operation and maintenance.....	336.33	1,419.37			
Interest.....		151.20	50.30	63.91	
Sinking fund and principal payments on debentures.....		1,475.09	400.31	1,278.18	
Depreciation.....	2,892.00	91,289.21	893.00	3,676.00	609.00
Other reserves.....		100,154.83			
Total operating costs and fixed charges.....	58,138.35	1,524,830.22	21,549.40	60,238.59	10,635.91
Net surplus.....	2,851.30	64,663.29	2,826.82	16,267.70	977.22
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	851	21,332	519	1,725	204
Commercial light service.....	167	2,453	19	133	55
Power service.....	29	453	5	15	5
Total.....	1,047	24,238	543	1,873	264

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1946

Lucknow 928	Lynden P.V.	Madoc 1,090	Markdale 722	Markham 1,173	Marmora 965	Martintown P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,332.59	3,200.37	6,629.79	4,186.10	10,854.51	5,381.35	1,127.35
3,718.98	769.77	4,691.79	3,480.59	5,114.44	2,801.62	1,261.53
13,767.19	799.99	2,397.11	1,917.94	3,625.45	401.07	51.02
390.76			170.91	348.50		
1,316.15	480.00	1,704.00	959.00	1,486.50	1,298.00	176.00
			1.05		204.67	
293.80	147.50	377.80	437.03	505.25	206.72	105.15
25,819.47	5,397.63	15,800.49	11,152.62	21,934.65	10,293.43	2,721.05
17,502.91	3,611.29	9,983.89	6,294.92	12,200.52	4,973.48	1,858.71
1,296.59	120.26	988.23	429.05	1,129.40	1,053.21	117.80
230.69	173.52	506.79	326.61	27.75		
	50.85		410.07	172.87	359.84	74.90
93.60	74.43	392.91	386.12	3.54		
1,688.72	515.52	695.43		162.42	338.20	37.50
		495.21	841.55	882.77	844.35	278.75
		10.08	15.00	219.56	709.92	77.14
				78.55	48.65	
1,128.00	260.00	647.00	598.00	1,244.00	458.00	137.00
21,940.51	4,805.87	13,719.54	9,301.32	16,121.38	8,785.65	2,581.80
3,878.96	591.76	2,080.95	1,851.30	5,813.27	1,507.78	139.25
330	105	334	256	368	269	64
95	15	95	74	67	41	24
10	2	6	8	9	1	1
435	122	435	338	444	311	89

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Maxville	Meaford	Merlin	Merritton	Midland
Population.....	807	2,650	P.V.	3,407	6,863
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,621.48	17,533.20	2,407.03	22,075.22	42,988.34
Commercial light service.....	2,532.65	11,495.53	2,204.23	5,319.11	21,534.86
Commercial power service.....		12,962.53	1,378.40	199,560.58	74,487.22
Municipal power.....		955.46		1,854.24	2,592.11
Street lighting.....	1,044.00	3,462.63	780.11	3,606.75	6,376.00
Merchandise.....			16.36		2,272.58
Miscellaneous.....	270.21	900.09	515.98	2,818.13	2,715.81
Total earnings.....	7,468.34	47,309.44	7,302.11	235,234.03	152,966.92
EXPENSES					
Power purchased.....	5,236.88	26,097.87	3,958.12	192,304.11	90,351.61
Substation operation.....				672.25	2,982.76
Substation maintenance.....					977.27
Distribution system, operation and maintenance.....	633.28	4,679.03	614.06	4,287.37	3,716.73
Line transformer maintenance.....	47.40	123.61	19.50	352.58	243.27
Meter maintenance.....	296.41	219.85	5.86	1,025.72	1,837.50
Consumers' premises expenses.....	4.90	242.56	351.37	2.78	1,409.04
Street lighting operation and maintenance.....	279.43	519.26	129.54	1,132.90	1,130.12
Promotion of business.....			5.30	2.50	
Billing and collecting.....	348.51	1,046.57	691.39	2,849.53	2,029.05
General office, salaries and expenses..	104.16	1,045.82	468.72	2,399.31	1,943.67
Undistributed expenses.....	8.28	440.81	1.53	357.40	1,203.26
Truck operation and maintenance.....		498.29		1,520.05	273.51
Interest.....					
Sinking fund and principal payments on debentures.....					
Depreciation.....	442.00	2,267.00	368.00	5,358.00	9,932.00
Other reserves.....					
Total operating costs and fixed charges.....	7,401.25	37,180.67	6,613.39	212,264.50	118,029.79
Net surplus.....	67.09	10,128.77	688.72	22,969.53	34,937.13
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	182	820	132	1,001	1,773
Commercial light service.....	46	170	55	68	225
Power service.....	0	22	3	20	59
Total.....	228	1,012	190	1,089	2,057

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

Mildmay 767	Millbrook 679	Milton 1,893	Milverton 961	Mimico 8,353	Mitchell 1,560	Moorefield P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,021.29	5,244.95	16,152.85	6,805.28	74,878.06	16,038.92	1,664.15
3,300.23	2,176.86	8,688.80	4,895.35	14,638.87	8,506.00	1,538.64
1,739.01	1,821.86	29,306.54	5,944.08	11,226.79	7,147.37	1,841.96
74.90			522.47	7,268.57	1,127.76	
672.00	787.08	2,329.35	1,053.00	8,490.47	2,746.63	350.00
12.50		309.66			4,876.67	
334.50	147.24	1,591.95	195.00	3,897.09	1,564.00	76.08
11,154.43	10,177.99	58,379.15	19,415.18	120,399.85	42,007.35	5,470.83
6,105.37	4,368.90	42,741.00	14,717.87	78,475.51	23,235.77	4,558.31
		8.35				
		1.80		360.84	634.40	
785.37	629.83	2,934.20	841.33	9,324.15	1,480.19	104.79
	116.78	193.20		77.80	79.21	120.26
3.20	198.91	660.91	3.59	1,211.45	146.95	15.00
60.35		141.16	183.37	2,499.37	374.15	
95.23	214.50	390.98	154.81	1,565.86	260.99	90.48
		6.50				
	615.75	976.47	810.31	4,358.68	1,268.16	
490.19	645.26	1,091.64	457.35	3,970.31	1,405.47	245.80
		259.62	21.55	482.75	1,042.09	5.79
		719.16		799.00	609.34	
281.26						1.00
436.00	278.00	1,929.00	630.00	5,297.00	2,622.00	203.00
8,256.97	7,067.3	52,053.99	17,820.18	108,422.72	33,158.72	5,344.43
2,897.46	3,110.06	6,325.16	1,595.00	11,977.13	8,848.63	126.40
196	195	583	273	2,418	545	72
61	65	111	82	173	146	29
5	5	18	11	29	28	2
262	265	712	366	2,620	719	103

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Morris- burg 1,436	Mount Brydges P.V.	Mount Forest 1,787	Napanee 3,362	Neustadt 418
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	12,373.12	3,007.92	11,891.11	30,764.92	2,473.85
Commercial light service.....	7,667.35	1,168.08	10,053.30	22,832.29	1,276.62
Commercial power service.....	3,901.15	909.06	6,086.39	13,838.97	673.81
Municipal power.....	744.90		1,003.31	398.36	
Street lighting.....	2,184.00	807.00	2,275.92	4,077.00	663.00
Merchandise.....				506.92	
Miscellaneous.....	347.16	463.71	470.05	1,859.35	500.50
Total earnings.....	27,217.68	6,355.77	31,780.08	74,277.81	5,587.78
EXPENSES					
Power purchased.....	11,429.16	4,070.98	23,644.29	41,289.14	1,408.09
Substation operation.....	2,079.74				
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,863.37	120.25	1,153.15	3,284.30	172.35
Line transformer maintenance.....	158.82			243.83	
Meter maintenance.....	355.50	20.52	146.25	1,169.26	128.10
Consumers' premises expenses.....		92.38		1,385.92	
Street lighting operation and main- tenance.....	331.95	15.54	456.83	1,072.19	97.56
Promotion of business.....					
Billing and collecting.....	1,543.31	245.61	771.52	2,599.93	
General office, salaries and expenses..	449.54	66.45	249.95	8,692.16	501.65
Undistributed expenses.....	45.77	6.30	92.09	3,984.61	
Truck operation and maintenance.....	345.41		169.64	1,838.31	
Interest.....	158.06		32.22		
Sinking fund and principal payments on debentures.....	998.70		586.98		
Depreciation.....	900.00	335.00	1,315.00	3,028.00	560.00
Other reserves.....					
Total operating costs and fixed charges.....	20,659.33	4,973.03	28,617.92	68,587.65	2,867.75
Net surplus.....	6,558.35	1,382.74	3,162.16	5,690.16	2,720.03
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	431	177	523	941	130
Commercial light service.....	112	40	145	223	27
Power service.....	19	5	20	28	3
Total.....	562	222	688	1,192	160

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

Newbury 207	Newcastle 675	New Hamburg 1,456	Newmarket 3,990	New Toronto 7,182	Niagara Falls 19,138
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,649.54	6,155.47	11,450.99	37,323.08	52,408.89	129,944.68
685.86	1,888.64	5,749.07	23,764.54	22,332.73	85,390.55
253.07	3,972.63	8,621.82	18,130.00	173,529.95	105,809.29
			2,481.92	12,072.67	14,771.51
720.00	892.00	2,221.00	5,455.29	8,160.48	25,478.54
		324.46	15.08		
198.21	270.00	694.00		5,484.01	6,316.46
3,506.68	13,178.74	29,061.34	87,169.91	273,988.73	367,711.03
1,975.54	8,037.95	19,746.13	61,511.50	228,874.86	216,586.07
		411.49			19,354.38
			379.86		
96.89	975.76	1,771.42	4,328.99	7,317.50	18,425.01
	83.34	245.99	390.67	272.10	1,552.12
0.61	104.30	334.78	533.52	1,521.95	8,939.56
	53.70	148.18	135.07	125.92	2,123.76
169.72	62.01	392.28	1,566.57	1,515.42	4,639.55
170.30	656.38	939.31	2,076.09	4,699.61	11,300.29
58.18	340.54	1,191.44	2,016.63	9,043.19	20,137.27
5.65	142.61	328.93	402.86	1,783.28	8,827.93
	466.80	217.96	472.32	665.43	3,059.32
		7.36	186.00		1,570.26
			1,000.00		10,064.92
294.00	602.00	1,200.00	2,419.00	5,502.00	21,489.00
2,770.89	11,525.39	26,935.27	77,419.08	261,321.26	348,069.44
735.79	1,653.35	2,126.07	9,750.83	12,667.47	19,641.59
80	239	396	1,110	2,136	5,222
19	36	122	204	318	801
1	7	12	34	40	125
100	282	530	1,348	2,494	6,148

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Niagara-on-the-Lake 1,802	North York Twp. V.A.	Norwich 1,249	Norwood 685	Oil Springs 396
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	21,831.50	258,190.19	11,407.40	6,231.10	2,485.13
Commercial light service.....	7,981.51	35,494.78	5,753.66	3,711.89	1,679.45
Commercial power service.....	4,969.45	67,361.50	1,728.34	3,154.90	5,480.16
Municipal power.....	1,003.78	25,846.92	503.5		
Street lighting.....	3,964.21	11,928.01	2,190.83	1,584.00	646.00
Merchandise.....	1,316.66		953.70		31.19
Miscellaneous.....	305.10	4,426.78	431.24	565.24	630.85
Total earnings.....	41,372.21	403,248.18	22,968.52	15,247.13	10,952.78
EXPENSES					
Power purchased.....	21,282.68	288,278.92	15,210.91	7,391.30	6,028.58
Substation operation.....	157.92				
Substation maintenance.....		870.29			
Distribution system, operation and maintenance.....	1,718.82	25,818.85	3,557.68	804.60	166.34
Line transformer maintenance.....	164.45	2,716.89	9.95		10.69
Meter maintenance.....	581.55	5,442.32	202.55	64.27	73.14
Consumers' premises expenses.....	170.67	3,322.07	710.40		
Street lighting operation and maintenance.....	871.72	2,305.89	343.83	236.88	43.90
Promotion of business.....	16.50				
Billing and collecting.....	1,410.79	14,577.10	912.63	666.69	629.7
General office, salaries and expenses..	1,147.16	10,623.00	1,150.67	295.00	2 1.53
Undistributed expenses.....	922.44	7,827.57	118.14		2.31
Truck operation and maintenance...	384.39	9,518.16	135.04	59.41	
Interest.....	700.70	6,146.81	22.05	636.21	
Sinking fund and principal payments on debentures.....	2,550.95	23,241.25		1,796.92	
Depreciation.....	3,156.00	27,444.00	753.00	945.00	770.00
Other reserves.....	54.94				
Total operating costs and fixed charges.....	35,291.68	428,133.12	23,126.85	12,896.28	7,965.96
Net surplus.....	6,080.53			2,350.85	2,986.82
Net loss.....		24,884.94	158.33		
NUMBER OF CONSUMERS					
Domestic service.....	655	8,397	409	245	114
Commercial light service.....	102	467	93	65	39
Power service.....	13	87	9	6	36
Total.....	770	8,951	511	316	189

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1946

Omemece 598	Orangeville 2,633	Orono P.V.	Oshawa 26,454	Ottawa 163,690	Otterville P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,960.81	20,913.44	5,518.30	261,825.64	745,655.64	3,338.82
987.36	14,922.04	2,38.44	92,656.28	341,364.17	2,210.32
4,920.36	6,007.15	345.55	330,824.67	69,827.01	639.83
.....	911.14	.....	10,714.39	24,805.63	70.77
986.04	2,619.96	1,050.00	12,749.13	83,061.97	912.00
.....	44.14	.....	10,957.59	.....	.....
226.07	694.92	145.00	14,074.87	20,223.86	186.72
11,080.64	46,112.79	9,444.29	733,802.57	1,284,938.28	7,358.46
7,379.30	31,956.97	4,152.22	470,640.84	652,692.72	4,574.13
.....	.....	.....	2,173.26	39,606.65	.....
.....	.....	.....	.....	1,508.27	.....
519.56	1,097.40	438.45	14,725.91	37,448.29	461.02
130.45	54.86	.....	913.71	1,748.33	87.25
273.31	972.31	101.50	6,121.99	16,202.67	4.00
.....	59.05	.....	22,646.29	4,367.25	15.18
209.91	484.97	86.66	2,361.44	37,344.55	100.83
.....	.....	.....	633.69	2,488.90	.....
.....	1,615.87	481.16	13,038.73	61,942.27	352.71
539.87	775.03	661.50	17,580.42	30,998.19	360.14
.....	85.94	58.70	7,490.25	22,213.97	35.97
.....	.....	.....	.....	5,497.60	.....
.....	.....	.....	1,013.87	10,517.60	.....
.....	.....	.....	15,000.00	13,243.82	.....
700.00	1,953.00	249.00	19,650.00	129,465.00	453.00
.....	.....	.....	.....	54,850.41	.....
9,752.40	39,055.40	6,229.19	593,990.40	1,122,136.49	6,444.23
1,328.24	7,057.39	3,215.10	139,812.17	162,801.79	914.23
.....
179	772	186	7,158	16,108	166
28	196	43	754	1,511	69
6	29	2	119	208	9
213	997	231	8,031	17,827	244

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Owen Sound 14,014	Paisley 585	Palmerston 1,379	Paris 4,531	Parkhill 802
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	91,416.89	4,821.90	12,761.46	30,404.31	7,251.15
Commercial light service.....	59,774.89	3,033.81	6,218.65	12,013.44	4,462.32
Commercial power service.....	101,853.97	1,562.63	8,131.19	24,825.91	2,556.64
Municipal power.....	1,607.20		1,470.28	1,066.72	573.67
Street lighting.....	11,052.39	1,346.00	2,650.43	5,622.50	1,768.20
Merchandise.....	2,808.35		49.12		
Miscellaneous.....	994.41	202.19	569.96	1,907.20	267.15
Total earnings.....	269,508.10	10,966.53	31,851.09	75,840.08	16,879.13
EXPENSES					
Power purchased.....	187,114.50	6,803.05	21,709.35	50,768.92	11,534.51
Substation operation.....	5,841.86			743.42	
Substation maintenance.....					
Distribution system, operation and maintenance.....	4,421.28	968.22	1,300.90	2,982.72	1,322.20
Line transformer maintenance.....	1,339.08	26.25	272.47	309.21	
Meter maintenance.....	2,359.08	69.23	306.32	1,098.68	141.84
Consumers' premises expenses.....	125.34		278.77	151.06	134.45
Street lighting operation and main- tenance.....	2,248.67	187.40	541.05	2,285.51	121.82
Promotion of business.....	166.34				
Billing and collecting.....	7,552.28		1,016.64	2,270.91	550.59
General office, salaries and expenses..	10,358.71	816.72	825.69	1,691.45	46.41
Undistributed expenses.....	4,181.75	65.87	79.87	815.22	22.01
Truck operation and maintenance.....	1,668.15		158.22	530.13	87.50
Interest.....			85.17		
Sinking fund and principal payments on debentures.....					
Depreciation.....	8,445.00	480.00	2,020.00	4,742.00	737.00
Other reserves.....					
Total operating costs and fixed charges.....	235,822.04	9,416.74	28,594.45	68,389.23	14,698.33
Net surplus.....	33,686.06	1,549.79	3,256.64	7,450.85	2,180.80
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	3,887	224	405	1,230	340
Commercial light service.....	577	54	100	195	90
Power service.....	107	8	17	26	10
Total.....	4,571	286	522	1,451	440

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

Penetan- guishene 3,894	Perth 4,265	Peterborough 32,242	Petrolia 2,684	Picton 3,542	Plattsville P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
16,007.92	33,581.54	222,322.07	16,132.90	28,464.02	3,172.98
10,052.22	20,072.32	105,263.18	10,716.63	18,896.51	2,165.66
22,608.41	17,395.04	271,956.05	28,337.13	7,959.98	2,710.51
2,113.01	1,087.99	7,182.34		1,919.50	
2,372.16	3,246.22	25,924.02	3,068.00	3,869.04	408.00
69.79	5,436.98			1,022.27	
1,089.13	3,042.81	11,079.99	1,268.88	1,688.33	286.10
54,312.64	83,862.90	643,727.65	59,523.54	63,819.65	8,743.25
32,232.79	47,979.43	419,117.50	32,262.89	50,145.84	6,169.99
109.95	368.24	8,401.48	150.91		
		1,020.25	3.30		
4,204.94	1,956.40	22,016.33	2,488.73	2,844.70	162.35
450.76	674.28	2,400.13	796.49	305.57	14.18
528.65	575.88	6,454.17	501.71	226.96	12.04
665.02	10.20	9,808.84	802.07	13.05	
600.48	650.33	6,678.00	1,339.22	675.76	22.51
		334.41	680.78	21.60	
1,793.86	2,297.10	13,817.46	1,525.51	2,104.08	317.63
1,370.19	3,939.37	8,188.06	3,027.40	3,073.80	35.46
175.93	339.43	9,133.32	572.64	185.40	6.61
318.44	690.07	3,145.27	440.87	369.99	
	1,96.63	8,519.75			
	3,881.11	5,682.04			
2,795.00	3,497.00	31,404.00	2,975.00	3,210.00	254.00
		300.00			
45,246.01	68,254.50	556,421.01	47,567.52	63,176.75	6,994.77
9,066.63	15,608.40	87,306.64	11,956.02	642.90	1,748.48
855	1,159	8,125	836	1,221	128
120	202	1,063	153	240	22
19	32	192	58	37	2
994	1,393	9,380	1,047	1,498	152

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Point Edward 1,360	Port Colborne 7,187	Port Credit 2,250	Port Dalhousie 1,747	Port Dover 2,073
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	8,098.17	33,575.47	22,016.52	25,434.50	12,651.63
Commercial light service.....	3,907.11	23,643.66	8,500.51	1,160.72	7,703.23
Commercial power service.....	41,560.16	17,474.64	5,223.80	7,571.46	7,052.12
Municipal power.....		6,652.41	1,006.77		
Street lighting.....	1,844.16	9,083.82	3,007.15	1,647.00	2,926.46
Merchandise.....	1,712.73				
Miscellaneous.....	961.29	3,591.49	655.07	792.25	466.65
Total earnings.....	58,083.62	94,214.49	40,409.82	41,605.93	30,800.09
EXPENSES					
Power purchased.....	47,168.45	51,667.45	28,029.04	26,402.18	20,380.87
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	813.55	8,471.38	3,151.04	3,073.22	2,609.20
Line transformer maintenance.....	81.75	1,834.21	299.27	186.50	139.50
Meter maintenance.....	358.57	78.07	681.56	1,209.92	762.83
Consumers' premises expenses.....	189.5	760.12	961.54	320.07	165.03
Street lighting operation and main- tenance.....	381.15	4,195.56	869.85	456.95	277.79
Promotion of business.....	25.00	48.28			
Billing and collecting.....	1,147.17	2,970.48	1,401.96	1,551.64	956.95
General office, salaries and expenses..	1,438.11	2,795.76	813.48	1,803.09	1,333.41
Undistributed expenses.....	28.97	1,217.45	198.25	317.39	150.30
Truck operation and maintenance.....		2,047.45	710.05	84.21	310.62
Interest.....		510.68	66.55		47.44
Sinking fund and principal payments on debentures.....		3,100.23	415.90		
Depreciation.....	1,052.00	3,916.00	1,523.00	1,597.00	2,386.00
Other reserves.....					
Total operating costs and fixed charges.....	52,684.25	84,323.12	39,121.49	37,792.17	29,519.96
Net surplus.....	5,399.37	9,698.37	1,288.33	3,813.76	1,280.13
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	370	1,718	685	743	822
Commercial light service.....	56	246	90	72	142
Power service.....	11	26	14	12	19
Total.....	437	1,990	789	827	983

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

Port Elgin	Port Hope	Port McNicoll	Port Perry	Port Rowan	Port Stanley
1,559	4,898	869	1,288	616	896
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
15,394.22	40,347.47	4,812.10	12,049.34	3,693.42	19,361.51
8,569.21	18,482.35	1,045.3	5,353.3	3,264.97	7,043.39
3,690.06	45,217.19		2,841.42		4,261.74
796.05	1,649.84		410.47		669.90
2,481.03	4,246.30	972.50	1,835.00	910.00	2,631.08
37.80	17.09				
376.56	1,985.34	4.63	325.00	241.58	715.00
31,344.93	111,945.58	6,834.59	22,814.86	8,109.97	34,682.62
19,066.22	76,561.94	3,451.64	13,241.56	5,063.20	24,493.51
	50.73				
1,116.65	2,716.10	848.38	1,787.63	309.35	2,923.67
42.01	231.99			62.82	119.00
125.86	1,537.01	350.76	210.10	3.70	272.75
344.08	2,692.32				439.29
320.28	1,327.44	291.89	302.63	110.06	470.85
723.31	2,682.69	762.29	877.4	379.46	968.03
268.92	4,733.52	329.79	540.83	76.05	954.93
50.88	1,603.92	114.03		14.12	492.26
176.47	65.20				286.52
729.54			95.66	106.00	
2,640.66			1,594.37	853.53	
1,520.00	4,135.00	405.00	844.00	373.00	1,274.00
27,124.88	99,037.86	6,556.78	19,494.18	7,351.29	32,694.81
4,220.05	12,907.72	277.81	320.68	758.68	1,987.81
562	1,524	250	405	217	885
1.9	219	27	86	63	122
7	45	0	13	0	11
698	1,788	277	504	280	1,018

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Prescott	Preston	Priceville	Princeton	Queenston
Population.....	3,194	6,701	P.V.	P.V.	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	27,156.63	45,025.42	731.89	3,110.13	3,247.19
Commercial light service.....	14,560.03	24,305.69	245.33	1,089.44	1,720.80
Commercial power service.....	12,103.60	59,570.66	379.91	3,148.46	.....
Municipal power.....	1,451.34	1,057.30	.....	.....	.....
Street lighting.....	4,250.20	6,580.02	34.00	468.00	566.50
Merchandise.....	.....	.....	.....	.....	.....
Miscellaneous.....	364.79	1,773.04	68.93	238.80	269.83
Total earnings.....	59,886.59	138,312.13	1,460.06	8,054.83	5,804.32
EXPENSES					
Power purchased.....	35,327.20	99,846.30	419.98	6,385.73	3,544.60
Substation operation.....	1,688.88	4,463.15	.....	.....	.....
Substation maintenance.....	.....	27.00	.....	.....	.....
Distribution system, operation and maintenance.....	3,617.26	3,077.86	17.84	102.50	255.08
Line transformer maintenance.....	289.66	369.64	.....	.....	0.75
Meter maintenance.....	518.57	1,853.97	27.35	.....	4.00
Consumers' premises expenses.....	343.18	1,000.94	.....	.....	129.99
Street lighting operation and maintenance.....	957.33	867.78	15.00	139.09	102.84
Promotion of business.....	.....	.....	.....	.....	.....
Billing and collecting.....	1,676.69	2,070.50	.....	235.38	260.41
General office, salaries and expenses.....	3,050.10	2,993.47	143.10	61.18	233.66
Undistributed expenses.....	1,468.37	1,162.50	.....	1.60	35.15
Truck operation and maintenance.....	.....	1,173.03	.....	.....	.....
Interest.....	.....	313.13	.....	.....	18.86
Sinking fund and principal payments on debentures.....	.....	1,257.44	.....	.....	99.54
Depreciation.....	2,711.00	7,605.00	202.00	210.00	328.00
Other reserves.....	.....	.....	.....	.....	.....
Total operating costs and fixed charges.....	51,648.24	128,081.71	825.27	7,135.48	5,012.88
Net surplus.....	8,238.35	10,230.42	634.79	919.35	791.44
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CONSUMERS					
Domestic service.....	837	1,763	41	105	82
Commercial light service.....	160	235	7	21	18
Power service.....	28	52	3	4	0
Total.....	1,025	2,050	51	130	100

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

Renfrew	Richmond	Richmond Hill	Ridgetown	Ripley	Riverside	Rockwood
5,781	450	1,458	1,948	433	5,938	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
33,265.54	3,163.06	14,576.88	10,236.37	3,484.44	46,465.67	5,167.69
20,972.10	1,662.69	4,764.89	9,223.59	2,105.72	7,151.57	1,581.87
43,971.21		2,007.79	6,732.89	2,449.77	4,863.46	68.08
		427.42	1,269.05		3,326.44	
4,900.01	390.00	1,572.00	3,521.83	1,096.00	4,433.60	819.00
			318.12		1,962.83	24.41
8,564.61		376.44	1,852.95		1,461.51	152.09
111,673.47	5,215.75	23,725.42	33,154.80	9,135.93	69,665.08	7,813.14
28,198.14	3,608.38	16,561.98	19,694.99	5,982.96	42,997.48	5,577.82
18,881.54					53.82	
743.04						
1,602.52	333.75	698.22	1,871.03	250.18	2,443.11	237.56
352.48		32.82	78.29		105.75	
647.92	173.19	105.73	591.96	10.38	595.59	114.00
			484.91		2,517.24	
1,387.59	60.25	293.08	762.78	52.76	766.24	220.39
637.70					149.55	
3,381.44	254.70	1,333.01	1,977.91		2,490.36	
6,485.25	46.94	347.29	1,374.35	526.32	3,737.55	707.82
1,195.49			354.27		675.68	
816.90			837.93		901.06	
4,166.09	86.52			213.76		50.90
15,687.51	475.81			814.30		149.70
10,363.00	346.00	933.00	1,329.00	618.00	3,475.00	431.00
			2,000.00			
94,546.61	5,385.54	20,305.13	31,357.42	8,468.66	60,908.43	7,489.19
17,126.86		3,420.29	1,797.38	667.27	8,756.65	323.95
	169.79					
1,449	96	457	624	134	1,749	180
233	24	81	145	50	91	35
66	0	15	23	2	14	2
1,748	120	553	792	186	1,854	217

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Rodney	Rosseau	Russell	St. Catharines	St. Clair Beach
Population.....	731	134	P.V.	34,559	235
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,997.54	1,957.98	3,914.57	204,173.65	3,418.56
Commercial light service.....	2,758.60	893.99	2,068.44	118,136.91	2,124.89
Commercial power service.....	2,222.94	461.37	.....	378,311.13	265.63
Municipal power.....	.....	.....	.....	.....	.....
Street lighting.....	1,148.60	940.02	848.00	28,574.10	144.00
Merchandise.....	.....	.....	.....	.....	.....
Miscellaneous.....	190.39	57.50	197.50	16,660.25	327.43
Total earnings.....	10,318.07	4,310.86	7,028.51	745,856.04	6,280.51
EXPENSES					
Power purchased.....	7,058.46	1,722.46	3,977.42	551,505.02	4,068.66
Substation operation.....	.....	.....	.....	9,386.01	.....
Substation maintenance.....	.....	.....	.....	.....	.....
Distribution system, operation and maintenance.....	549.44	72.99	446.79	25,971.14	618.79
Line transformer maintenance.....	.....	.....	.....	2,517.10	102.73
Meter maintenance.....	767.42	9.70	55.31	10,554.02	12.40
Consumers' premises expenses.....	10.64	.....	.....	2,028.80	45.70
Street lighting operation and maintenance.....	177.60	82.67	113.88	4,319.50	2.25
Promotion of business.....	.....	.....	.....	393.78	110.16
Billing and collecting.....	591.12	337.59	436.90	19,143.34	364.56
General office, salaries and expenses..	424.62	130.98	131.78	14,489.75	307.40
Undistributed expenses.....	21.86	.....	.....	8,915.14	1.23
Truck operation and maintenance.....	.....	.....	.....	2,645.40	.....
Interest.....	.....	422.68	.....	875.00	.....
Sinking fund and principal payments on debentures.....	.....	711.11	.....	3,500.00	.....
Depreciation.....	737.00	236.00	260.00	19,022.00	363.00
Other reserves.....	.....	.....	.....	4,000.00	.....
Total operating costs and fixed charges.....	10,338.16	3,726.18	5,422.08	679,266.00	5,996.88
Net surplus.....	.....	584.68	1,606.43	66,590.04	283.63
Net loss.....	20.09	.....	.....	.....	.....
NUMBER OF CONSUMERS					
Domestic service.....	274	63	127	9,081	115
Commercial light service.....	68	10	31	1,168	9
Power service.....	8	1	0	218	1
Total.....	350	74	158	10,467	125

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1946

St. George P.V.	St. Jacobs P.V.	St. Marys 3,643	St. Thomas 18,190	Sarnia 20,060	Scarborough Twp. V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,742.49	4,570.36	35,360.70	156,661.88	138,654.93	158,574.45
2,123.66	2,465.06	14,875.41	68,282.00	74,502.88	33,253.98
3,776.78	4,859.30	22,817.37	76,678.65	68,387.35	29,777.53
.....	.....	2,793.41	5,291.41	4,670.85	14,908.36
524.92	430.00	4,950.00	15,219.12	20,601.08	12,862.46
.....	.....	136.53	.....	10,594.24	.....
276.69	300.00	1,093.35	5,356.83	28,233.26	5,150.86
10,444.54	12,624.72	82,026.77	327,489.89	345,644.59	254,527.64
7,081.00	9,029.07	59,123.08	213,347.53	201,244.24	159,237.83
.....	.....	3,149.76	10,812.80	11,537.87	699.10
.....	.....	.....	388.83	1,085.37	.....
90.70	156.83	3,366.68	10,112.69	8,679.97	9,054.98
1.25	167.45	202.45	1,208.60	1,504.70	1,913.85
61.66	52.90	789.38	3,935.16	8,812.57	3,408.54
.....	4.20	829.73	17,034.55	10,970.00	1,469.00
204.68	61.78	1,222.11	2,447.51	6,504.56	2,557.09
.....	.....	43.20	586.50	620.80	.....
496.52	814.83	1,490.09	9,619.12	12,077.12	7,384.55
248.07	105.86	2,739.99	10,968.28	18,681.97	6,767.52
10.55	19.54	1,682.63	6,411.23	8,594.59	2,481.34
.....	.....	423.54	.....	4,485.77	2,227.31
.....	.....	913.15	.....	.....	.....
.....	.....	1,496.96	.....	.....	.....
287.00	332.00	4,510.00	13,637.52	27,129.00	12,475.00
.....	.....	.....	.....	357.77	.....
8,481.43	10,744.46	81,982.75	300,510.32	322,286.30	209,676.11
1,963.11	1,880.26	44.02	26,979.57	23,358.29	44,851.53
.....
177	140	1,116	4,803	5,751	6,671
42	33	192	608	683	488
3	9	38	87	94	55
222	182	1,346	5,498	6,528	7,214

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Seaforth	Shelburne	Simcoe	Smiths Falls	Smithville
Population.....	1,724	1,132	6,063	7,736	P.V.
EARNINGS					
Domestic service.....	\$ 13,762.73	\$ 6,924.46	\$ 30,826.49	\$ 58,763.72	\$ 3,835.78
Commercial light service.....	10,261.12	4,736.39	35,131.28	22,391.52	3,167.05
Commercial power service.....	17,298.54	4,089.07	32,179.19	30,971.27	5,039.89
Municipal power.....	764.08	286.86	2,892.67	1,060.68	
Street lighting.....	2,139.00	882.00	5,855.19	7,866.00	1,266.00
Merchandise.....	315.37	13.45			
Miscellaneous.....	448.98	573.14	4,127.83	3,709.31	425.84
Total earnings.....	44,989.82	17,505.37	111,012.65	124,762.50	13,734.56
EXPENSES					
Power purchased.....	31,293.06	11,244.55	74,308.81	78,284.71	7,870.41
Substation operation.....			215.38	455.42	
Substation maintenance.....	79.67			1,406.23	
Distribution system, operation and maintenance.....	2,689.64	160.90	7,010.37	4,943.53	1,160.08
Line transformer maintenance.....	808.69	158.89	792.47	228.75	59.35
Meter maintenance.....	548.44	843.14	3,448.51	1,271.87	798.17
Consumers' premises expenses.....	446.94		336.13	3,485.15	62.51
Street lighting operation and maintenance.....	574.28	79.21	1,965.79	1,885.66	341.52
Promotion of business.....			22.20	81.69	
Billing and collecting.....	1,250.66	771.89	3,354.83	5,480.12	951.42
General office, salaries and expenses..	1,649.40	203.02	3,106.35	5,615.06	252.31
Undistributed expenses.....	128.94	3.34	609.64	154.72	39.98
Truck operation and maintenance.....	958.46		1,386.61	961.62	200.00
Interest.....	294.95		390.20		186.61
Sinking fund and principal payments on debentures.....	574.60		2,028.61		861.36
Depreciation.....	1,563.00	940.00	6,610.00	5,323.00	460.00
Other reserves.....			2,700.00		
Total operating costs and fixed charges.....	42,860.73	14,404.94	108,285.90	109,577.53	13,243.72
Net surplus.....	2,129.09	3,100.43	2,726.75	15,184.97	490.84
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	611	333	1,724	2,123	193
Commercial light service.....	121	79	353	301	55
Power service.....	22	15	52	41	7
Total.....	754	427	2,129	2,465	255

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

Southampton	Springfield	Stamford	Stayner	Stirling	Stouffville
1,598	409	Twp. V.A.	1,028	1,006	1,340
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
12,852.67	2,548.39	82,353.17	7,281.14	7,857.15	8,858.07
6,662.05	848.10	17,543.61	4,795.61	4,244.70	5,340.05
8,465.60	1,638.63	20,475.62	2,775.69	1,546.46	2,602.16
885.14		2,695.50	119.02	232.08	
2,562.19	611.50	8,648.25	1,512.00	1,747.08	1,430.00
		3,702.24		384.05	
248.84	189.36	2,097.92	334.73	547.27	560.65
31,676.49	5,835.98	137,516.31	16,818.19	16,558.79	18,790.93
18,586.37	3,515.10	66,273.09	9,835.64	9,116.69	14,673.34
		812.96		260.00	
1,811.82	147.14	11,866.72	1,719.88	1,222.35	1,189.71
16.05		532.51			239.30
211.96		2,891.57	549.27	85.93	315.50
386.35		5,297.60	38.62	7.85	220.61
313.75	76.87	1,253.24	255.91	362.94	172.34
		19.50			
1,165.78	368.00	4,549.09	832.61	652.86	989.31
776.75	191.34	5,867.84	478.97	1,529.73	579.20
88.50	6.90	2,792.59	13.85	101.40	59.58
346.26		3,191.02		434.80	
212.67	40.17	1,745.28			
2,074.78	338.30	9,488.67			
1,634.00	507.00	11,829.00	888.00	1,214.00	873.00
27,625.04	5,190.82	128,410.68	14,612.75	14,988.55	19,311.89
4,051.45	645.16	9,105.63	2,205.44	1,570.24	
					520.96
622	133	2,731	332	293	437
97	23	173	116	91	92
12	4	23	17	12	8
731	160	2,927	465	396	537

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Stratford	Strathroy	Streetsville	Sunderland	Sutton
Population.....	17,092	3,001	707	P.V.	981
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	162,788.53	29,049.06	6,894.49	3,588.96	10,353.16
Commercial light service.....	69,049.02	15,400.94	2,742.49	1,792.59	4,708.80
Commercial power service.....	58,424.97	16,675.99	3,018.31	510.95	2,060.50
Municipal power.....	10,250.07	1,879.18			
Street lighting.....	17,098.18	4,465.87	1,622.00	645.60	2,053.66
Merchandise.....	5,924.34				
Miscellaneous.....	12,857.98	1,080.00	679.13	104.02	300.69
Total earnings.....	336,393.09	68,551.04	14,956.42	6,642.12	19,476.81
EXPENSES					
Power purchased.....	207,576.50	43,878.27	6,858.48	4,374.67	15,358.41
Substation operation.....	7,079.88	949.33	900.81		
Substation maintenance.....	3,071.77				
Distribution system, operation and maintenance.....	13,664.62	2,439.72	2,352.50	257.20	627.46
Line transformer maintenance.....	557.13	456.14	87.86		
Meter maintenance.....	4,023.34	1,023.57	150.55	94.56	42.00
Consumers' premises expenses.....	3,279.07	1,974.21		24.30	66.99
Street lighting operation and maintenance.....	3,086.16	1,474.68	255.45	192.15	348.02
Promotion of business.....	1,501.06	18.00			
Billing and collecting.....	9,214.57	1,200.20	1,113.09	508.26	759.27
General office, salaries and expenses..	11,604.73	3,162.36	220.53	286.94	313.98
Undistributed expenses.....	4,218.18	997.57	87.20		61.73
Truck operation and maintenance.....	1,247.92	642.51			237.52
Interest.....		502.37			
Sinking fund and principal payments on debentures.....	3,550.00	2,828.03			
Depreciation.....	20,080.00	3,083.00	1,246.00	307.00	843.00
Other reserves.....					
Total operating costs and fixed charges.....	293,754.93	64,629.96	13,272.47	6,045.08	18,658.38
Net surplus.....	42,638.16	3,921.08	1,683.95	597.04	818.43
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	4,646	864	217	158	484
Commercial light service.....	636	203	52	42	86
Power service.....	133	34	6	2	5
Total.....	5,415	1,101	275	202	575

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1946

Swansea	Tara	Tavistock	Tecumseh	Teeswater	Thamesford	Thamesville
7,142	472	1,082	2,794	854	P.V.	734
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
70,950.47	3,312.20	9,435.81	16,650.24	4,940.92	5,264.18	4,314.24
10,261.80	1,817.89	4,988.77	5,736.28	3,320.35	1,806.69	3,303.73
23,275.91	1,682.14	9,223.53	1,608.14	1,415.29	2,572.90	2,124.35
2,118.26		426.56	374.64	180.00		175.89
5,727.00	821.12	1,317.60	1,663.20	1,014.00	640.75	1,325.00
		23.58	100.15			
2,667.03	303.61	426.33	793.99	295.85	160.25	622.39
115,000.47	7,936.96	25,842.18	26,926.64	11,166.41	10,444.77	11,865.60
84,615.56	5,798.55	20,556.31	15,199.23	7,434.98	9,386.87	8,241.11
3,200.03	474.42	879.23	2,720.75	572.53	314.10	909.58
372.35		62.43	123.56			7.50
1,386.32	164.84	89.06	307.47	129.87	38.40	26.20
3,233.78		204.84	1,453.41	236.07	118.32	
860.48	146.08	248.30	523.69	72.49	112.97	195.97
			45.15			
4,163.26		1,226.51	1,071.30		355.09	387.52
2,234.18	476.94	584.24	1,809.35	860.73	139.67	364.55
1,797.44	7.13	31.76	158.29		8.39	8.05
468.60			259.07			
2,145.22		25.60				
4,039.25		371.72				
3,988.00	560.00	840.00	1,388.00	705.00	391.00	693.00
112,504.47	7,627.96	25,120.00	25,059.27	10,011.67	10,864.81	10,833.48
2,496.00	309.00	722.18	1,867.37	1,154.74		1,032.12
					420.04	
2,134	172	305	765	241	156	253
99	38	98	65	63	46	73
16	6	10	4	5	6	7
2,249	216	413	834	309	208	333

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Thedford	Thornbury	Thorndale	Thornton	Thorold
Population.....	598	786	P.V.	P.V.	5,517
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,790.10	6,189.46	2,300.91	1,378.95	22,457.53
Commercial light service.....	2,880.10	3,426.15	757.68	496.39	9,322.73
Commercial power service.....	1,497.44	3,012.88	1,880.73	245.94	58,266.73
Municipal power.....					2,338.05
Street lighting.....	1,143.33	1,598.40	384.00	25.00	3,858.65
Merchandise.....					
Miscellaneous.....	371.75		127.87	75.00	2,915.76
Total earnings.....	9,682.72	14,226.89	5,451.19	2,221.28	99,159.45
EXPENSES					
Power purchased.....	5,626.07	6,638.37	4,421.26	1,654.65	73,004.65
Substation operation.....		3,290.11			3,525.96
Substation maintenance.....					
Distribution system, operation and maintenance.....	860.90	1,235.75	224.63	165.00	2,519.32
Line transformer maintenance.....					47.76
Meter maintenance.....	213.37	128.25	16.25	39.35	523.94
Consumers' premises expenses.....			86.43		115.55
Street lighting operation and maintenance.....	86.39	308.08	32.55	82.77	808.79
Promotion of business.....					
Billing and collecting.....	378.08	795.78	207.65		2,245.39
General office, salaries and expenses..	212.80	305.99	55.07	176.36	1,404.76
Undistributed expenses.....	4.57	226.03			258.14
Truck operation and maintenance.....					212.09
Interest.....	9.91	273.67			
Sinking fund and principal payments on debentures.....		701.21			
Depreciation.....	720.00	878.00	258.00	310.00	2,459.00
Other reserves.....					
Total operating costs and fixed charges.....	8,112.09	14,781.24	5,301.84	2,428.13	87,126.25
Net surplus.....	1,570.63		149.35		12,033.20
Net loss.....		554.35		206.85	
NUMBER OF CONSUMERS					
Domestic service.....	200	257	86	69	1,317
Commercial light service.....	45	66	22	14	141
Power service.....	2	11	3	1	23
Total.....	247	334	111	84	1,481

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1946

Tilbury 1,929	Tillsonburg 4,172	Toronto 681,802	Toronto Twp. V.A.	Tottenham 455	Trafalgar Twp. V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,631.97	24,795.92	4,474,737.01	117,844.57	4,114.31	31,066.15
8,158.06	24,028.07	3,209,305.03	28,943.81	1,472.87	2,915.80
16,367.75	18,988.01	4,877,618.05	33,148.75	1,447.65	3,728.61
225.00	1,887.13	1,437,878.16	.....	274.98	.....
2,013.13	5,151.70	452,700.96	6,527.19	914.70	132.90
.....	1,427.24	37,528.87	.....	2.04	.....
1,358.40	1,010.00	490,489.10	4,127.00	99.25	1,192.64
36,754.31	77,288.07	14,980,257.18	190,591.32	8,325.80	39,036.10
24,652.47	48,453.65	*8,201,303.18	119,356.54	5,726.97	22,275.28
.....	1,358.27	248,418.72	.....	.....	.....
.....	.....	355,419.84	.....	.....	.....
1,383.62	5,285.34	404,031.59	7,381.89	896.01	4,293.20
42.20	73.34	54,792.22	999.69	.....	490.49
848.58	617.04	122,026.51	1,496.55	73.00	705.14
.....	64.07	298,552.46	116.57	.....	842.71
376.20	838.27	133,555.13	736.85	166.52	27.92
6.62	9.50	141,455.07	.....	.....	.....
849.11	2,502.45	486,552.62	8,998.82	413.75	1,528.51
1,253.20	4,099.86	404,092.72	13,132.82	254.37	1,060.74
229.31	210.65	483,185.23	649.98	32.37	584.44
347.02	680.24	.....	3,138.27	.....	963.47
.....	354.49	372,767.92	621.37	55.58	255.93
.....	408.58	635,901.55	1,600.65	531.03	1,013.21
1,250.00	4,766.00	1,179,906.92	9,540.00	440.00	1,576.00
.....	3,000.00	†1,300,000.00	.....	.....	.....
31,238.33	72,721.75	14,821,961.68	167,770.00	8,589.60	35,617.04
5,515.98	4,566.32	158,295.50	22,821.32	.....	3,419.06
.....	.....	.....	.....	263.80	.....
546	1,316	155,642	3,572	175	622
134	280	25,109	242	44	29
16	41	5,487	50	8	11
696	1,637	186,238	3,864	227	662

*Includes 1946 cost adjustment.

†Provision for renovation of street lighting system and other capital assets.

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Trenton	Tweed	Uxbridge	Victoria Harbour 897	Walkerton
Population.....	9,849	1,250	1,426	897	2,566
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	43,490.60	8,883.35	12,448.85	4,155.54	23,023.47
Commercial light service.....	23,351.94	5,850.98	5,888.43	1,128.41	15,650.86
Commercial power service.....	84,143.49	5,178.24	3,331.44		12,311.00
Municipal power.....	5,172.34	352.03	496.33	109.02	493.78
Street lighting.....	9,019.48	2,109.24	1,825.59	663.00	2,966.20
Merchandise.....		124.04			112.88
Miscellaneous.....	4,352.49	349.75	319.32	167.68	585.93
Total earnings.....	169,530.34	22,847.63	24,309.96	6,223.65	55,144.12
EXPENSES					
Power purchased.....	113,182.42	13,839.13	16,178.58	2,791.82	30,958.10
Substation operation.....					
Substation maintenance.....	70.72				
Distribution system, operation and maintenance.....	2,792.81	1,413.38	552.97	300.00	2,216.59
Line transformer maintenance.....	171.44	19.40			92.90
Meter maintenance.....	4,131.86	124.65	292.46	177.93	626.97
Consumers' premises expenses.....	1,213.96		1,036.20		38.89
Street lighting operation and main- tenance.....	1,007.63	584.05	384.23	230.67	371.11
Promotion of business.....					
Billing and collecting.....	5,251.76	838.75	888.38	763.83	1,752.97
General office, salaries and expenses..	6,268.74	407.04	707.17	396.88	1,679.23
Undistributed expenses.....	1,813.80	11.44	17.19		187.78
Truck operation and maintenance....	1,348.57				488.76
Inte est.....					1,282.95
Sinking fund and principal payments on debentures.....					3,772.33
Depreciation.....	8,297.00	809.00	663.00	435.00	2,338.00
Other reserves.....					
Total operating costs and fixed charges.....	145,550.71	18,046.84	20,720.18	5,096.13	45,806.58
Net surplus.....	23,979.63	4,800.79	3,589.78	1,127.52	9,337.54
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	1,938	340	460	290	723
Commercial light service.....	291	84	100	32	138
Power service.....	53	16	14	1	19
Total.....	2,282	440	574	323	880

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

Wallaceburg	Wardsville	Warkworth	Waterdown	Waterford	Waterloo	Watford
5,088	226	P.V.	966	1,375	9,452	938
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
32,895.05	1,728.69	2,954.48	6,836.24	8,085.48	74,210.66	9,377.22
20,150.90	1,402.21	1,721.81	1,739.59	3,980.38	29,465.12	4,795.52
133,649.98	41.81	96.29	1,623.72	4,910.98	75,426.53	4,663.93
4,377.99			98.14	321.91	3,318.43	359.18
5,335.62	666.00	631.90	1,142.00	1,518.00	8,077.57	1,633.44
6,594.04						
3,435.85	154.08	203.50	301.68	420.91	3,801.79	942.64
206,439.43	3,992.79	5,607.98	11,741.37	19,237.66	194,300.10	21,771.93
137,410.69	2,456.15	3,132.51	8,493.53	13,204.19	159,378.41	14,312.40
447.60					1,653.64	
					648.73	
6,076.62	483.49	253.92	977.61	1,639.58	6,239.17	1,703.00
397.65	18.54			76.30	1,078.99	8.80
1,342.77	36.57		175.60	256.39	1,798.42	301.48
3.91	5.37				916.97	908.82
1,098.36	82.61	20.25	161.10	191.67	1,067.96	202.83
246.30						
2,636.33	136.39	215.56	674.78	597.42	4,179.59	794.71
5,224.36	80.53	51.85	181.22	315.78	3,395.20	924.69
1,500.79	5.73	1.13	42.98	108.38	444.97	123.29
1,497.03				314.15	432.07	405.14
		326.64	4.05			
		473.00				
7,930.00	229.00	225.00	662.00	854.00	9,364.00	809.00
165,812.41	3,581.38	4,699.86	11,372.87	17,557.86	190,598.12	20,494.16
40,627.02	411.41	908.12	368.50	1,679.80	3,701.98	1,277.77
1,673	71	15°	273	436	2,415	317
281	20	37	34	77	281	81
58	1	1	11	15	80	8
2,012	92	196	318	528	2,776	406

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Waubau- shene P.V.	Welland	Wellesley	Wellington 917	West Lorne 841
Population.....		15,780	P.V.		
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,268.66	56,984.90	3,042.94	7,728.71	4,615.33
Commercial light service.....	954.63	44,997.16	1,824.11	3,452.10	4,002.12
Commercial power service.....	344.66	180,888.19	1,439.15	3,984.61	8,272.13
Municipal power.....	165.69	3,040.08			
Street lighting.....	531.20	16,995.45	724.12	1,110.98	1,069.98
Merchandise.....					
Miscellaneous.....	20.18	11,673.72	236.13	360.00	380.31
Total earnings.....	6,285.02	314,579.50	7,266.45	16,636.40	18,339.87
EXPENSES					
Power purchased.....	4,530.64	234,104.45	4,879.22	9,256.03	13,287.90
Substation operation.....		9,266.18			
Substation maintenance.....		662.35			
Distribution system, operation and maintenance.....	174.46	6,599.54	234.76	978.01	539.44
Line transformer maintenance.....		1,424.59	9.37	84.50	
Meter maintenance.....	84.75	7,700.05	86.90	296.75	850.64
Consumers' premises expenses.....	82.95	4,298.57	169.15	55.56	547.26
Street lighting operation and main- tenance.....	111.06	3,257.02	143.14	79.59	333.75
Promotion of business.....		5.00			
Billing and collecting.....	333.62	6,978.00	439.43	582.60	872.96
General office, salaries and expenses..	175.20	9,770.50	179.17	352.84	186.73
Undistributed expenses.....		1,037.97	11.78	300.31	3.16
Truck operation and maintenance.....		1,244.73		382.22	
Interest.....	12.43	71.67		136.24	
Sinking fund and principal payments on debentures.....				633.95	
Depreciation.....	538.00	13,092.00	320.00	728.00	627.00
Other reserves.....					
Total operating costs and fixed charges.....	6,043.11	299,512.62	6,472.92	13,866.60	17,248.84
Net surplus.....	241.91	15,066.88	793.53	2,769.80	1,091.03
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	245	3,318	142	347	248
Commercial light service.....	23	488	48	75	62
Power service.....	3	90	7	12	9
Total.....	271	3,896	197	434	319

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

Weston	Westport	Wheatley	Whitby	Warton	Williams- burg P.V.	Winchester
6,333	639	711	4,595	1,682		959
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
63,784.75	4,626.83	4,173.74	36,717.12	9,284.48	2,030.97	8,195.17
17,322.26	3,572.46	4,945.01	16,320.83	8,412.99	2,362.50	5,433.51
70,312.57		3,341.39	20,424.91	5,892.44	295.96	2,175.41
526.30		547.70	2,094.10	2,216.57		
7,864.97	1,120.08	2,304.98	5,101.56	2,189.42	326.40	944.00
			106.16			
967.79		252.13	1,971.40	620.80	697.50	465.03
160,778.64	9,319.37	15,564.95	82,736.08	28,616.70	5,713.33	17,213.12
120,798.25	5,526.42	10,227.18	43,636.41	16,847.40	3,431.25	13,311.70
759.02			788.61			
8,991.83	545.84	1,514.26	3,683.55	2,155.19	102.60	350.58
738.84		31.85	476.92	53.15		9.09
1,677.88	73.86	164.46	775.76	367.96	159.51	170.18
640.11		232.09	704.46		172.14	154.54
1,357.23	120.38	451.57	1,560.43	602.30	61.22	64.46
2,536.85	762.80	581.98	2,586.51	791.08	471.27	854.64
3,309.47	507.88	427.34	3,398.09	657.05	131.42	318.42
693.64	14.55	52.58	1,201.27	115.40		
580.53			256.83	300.40		
	132.21		194.77	869.94		
	910.32		605.01	2,132.80		
8,216.00	375.00	1,176.00	4,616.00	1,262.00	211.00	592.00
150,299.65	8,969.26	14,859.31	64,484.62	26,154.67	4,740.41	15,825.61
10,478.99	350.11	705.64	18,251.46	2,462.03	972.92	1,387.51
1,763	163	237	1,093	483	92	312
197	52	76	173	115	34	90
34	0	9	34	19	1	3
1,994	215	322	1,300	617	127	405

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Concluded

Municipality.....	Windsor	Windsor	Wingham	Woodbridge
Population.....	118	117,539	2,155	1,128
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,432.27	772,984.30	17,997.21	9,461.48
Commercial light service.....	675.43	443,865.68	12,963.64	2,583.73
Commercial power service.....	1,019.30	715,402.20	22,495.38	10,404.56
Municipal power.....		19,615.36	1,129.13	2,283.05
Street lighting.....	325.00	114,871.50	3,606.44	1,039.75
Merchandise.....		15,609.23	4,960.61	
Miscellaneous.....	129.83	51,413.67		434.98
Total earnings.....	4,581.83	2,133,761.94	63,152.41	26,207.55
EXPENSES				
Power purchased.....	2,486.69	1,260,249.05	31,852.07	23,181.66
Substation operation.....		51,644.37	2,821.56	
Substation maintenance.....		25,853.80		
Distribution system, operation and maintenance.....	172.25	68,516.46	3,092.91	254.18
Line transformer maintenance.....		15,900.69	71.24	39.09
Meter maintenance.....	58.03	39,448.62	637.96	373.09
Consumers' premises expenses.....		65,903.10	629.04	449.89
Street lighting, operation and maintenance.....	54.84	45,378.95	600.96	235.00
Promotion of business.....		7,212.66		
Billing and collecting.....		71,884.21	1,083.85	897.11
General office, salaries and expenses.....	270.17	54,987.05	1,266.14	218.53
Undistributed expenses.....	5.94	16,708.43	634.46	4.90
Truck operation and maintenance.....		14,968.28	927.18	
Interest.....	271.09	16,335.42	968.41	135.61
Sinking fund and principal payments on debentures.....	758.60	47,825.28	2,099.25	
Depreciation.....	303.00	171,308.00	2,703.00	778.00
Other reserves.....				
Total operating costs and fixed charges.....	4,380.61	1,974,124.37	49,388.03	26,567.06
Net surplus.....	201.22	159,637.57	13,764.38	
Net loss.....				359.51
NUMBER OF CONSUMERS				
Domestic service.....	72	27,414	609	333
Commercial light service.....	12	3,440	150	56
Power service.....	2	527	24	10
Total.....	86	31,381	783	399

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1946

Woodstock	Woodville	Wyoming	York Twp.	Zurich	SOUTHERN ONTARIO SYSTEM SUMMARY
12,916	388	576	V.A.	P.V.	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
97,683.67	2,669.99	3,034.03	532,565.97	4,424.47	15,966,254.64
62,087.72	1,130.17	1,962.36	85,994.08	3,721.48	8,532,634.62
95,549.06	699.00	1,492.49	156,102.61		15,267,037.38
5,054.50			7,032.56		2,072,797.54
9,134.04	746.00	688.50	45,297.78	693.00	1,880,495.82
					176,638.11
3,869.48	179.13	107.68	13,517.17	285.32	1,158,853.35
273,378.47	5,424.29	7,285.06	840,510.17	9,124.27	45,054,711.46
208,810.05	3,884.55	4,450.97	533,217.15	6,085.22	27,833,857.47
4,345.08			4,233.00		699,141.02
			1,595.03		440,175.83
6,169.92	336.49	239.64	16,535.80	232.49	1,338,694.79
250.10			7,955.13		164,477.98
6,946.74	20.00	33.36	16,940.68	190.28	495,590.99
5,330.11			27,930.81		687,343.32
3,304.50	160.87	91.63	8,840.07	162.59	466,146.04
2,075.89					181,333.08
6,337.13	495.81	260.27	44,549.36	372.96	1,341,081.26
5,120.29	89.41	137.36	33,415.22	205.04	1,256,238.83
2,667.74		5.10	2,961.41	9.72	803,094.80
2,243.78					138,601.92
			3,383.86	39.60	508,008.40
			18,165.06	350.39	1,203,543.95
11,904.00	208.00	393.00	44,861.00	378.00	2,718,813.68
		32.63			1,486,877.45
265,505.33	5,195.13	5,643.96	764,583.58	8,026.29	41,763,020.81
7,873.14	229.16	1,641.10	75,926.59	1,097.98	3,291,690.65
3,530	124	179	22,975	164	577,808
520	24	46	1,117	42	81,231
108	2	3	225	0	14,640
4,158	150	228	24,317	206	673,679

STATEMENT

Detailed Operating Reports of Electrical Departments of

THUNDER BAY SYSTEM

Municipality.....	Fort William	Nipigon Twp. V.A.	Port Arthur	THUNDER BAY SYSTEM SUMMARY
Population.....	30,590		25,373	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	287,076.66	7,326.11	176,617.30	471,020.07
Commercial light service.....	108,262.29	5,590.55	103,913.64	217,766.48
Commercial power service.....	74,037.86	539.82	260,755.96	335,333.64
Municipal power.....	34,034.73	536.41	34,638.17	69,209.31
Street lighting.....	21,077.93	797.00	27,816.12	49,691.05
Merchandise.....				
Miscellaneous.....	7,358.79	340.80	27,968.74	35,668.33
Total earnings.....	531,848.26	15,130.69	631,709.93	1,178,688.88
EXPENSES				
Power purchased.....	326,694.62	7,596.36	415,952.86	750,243.84
Substation operation.....	9,272.51		32,575.10	41,847.61
Substation maintenance.....	1,889.99		1,490.87	3,380.86
Distribution system, operation and maintenance.....	13,199.16	951.51	19,100.11	33,250.78
Line transformer maintenance.....	1,005.80		1,275.15	2,280.95
Meter maintenance.....	6,810.73	206.06	9,334.52	16,351.31
Consumers' premises expenses.....	8,119.13			8,119.13
Street lighting, operation and main- tenance.....	8,595.41	242.00	5,401.56	14,238.97
Promotion of business.....	251.42		1,850.78	2,102.20
Billing and collecting.....	21,791.46		19,548.41	41,339.87
General office, salaries and expenses.....	15,671.43	1,106.47	16,010.84	32,788.74
Undistributed expenses.....		50.03	16,359.98	16,410.01
Truck operation and maintenance.....			1,703.27	1,703.27
Interest.....	13,200.65			13,200.65
Sinking fund and principal payments on debentures.....	5,254.84			5,254.84
Depreciation.....	23,890.00	909.00	33,187.00	57,986.00
Other reserves.....	1,000.00		3,000.00	4,000.00
Total operating costs and fixed charges.....	456,647.15	11,061.43	576,790.45	1,044,499.03
Net surplus.....	75,201.11	4,069.26	54,919.48	134,189.85
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	7,855	294	6,640	14,789
Commercial light service.....	1,170	62	946	2,178
Power service.....	124	5	134	263
Total.....	9,149	361	7,720	17,230

“B”—Concluded

Hydro Municipalities for Year Ended December 31, 1946

NORTHERN ONTARIO DISTRICTS

Capreol	North Bay	Sioux Lookout	Sudbury	NORTHERN ONTARIO DISTRICTS SUMMARY	ALL SYSTEMS GRAND SUMMARY
1,680	15,968	1,897	36,299		
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,360.30	111,503.26	21,309.35	270,861.21	415,034.12	16,852,308.83
4,005.11	64,879.24	14,410.79	145,340.92	228,636.06	8,979,037.16
4,252.29	54,079.36	2,029.37	44,422.69	104,783.71	15,707,154.73
640.97	6,503.62		11,928.37	19,072.96	2,161,079.81
1,385.96	11,723.64	1,941.00	29,787.21	44,837.81	1,975,024.68
	2,614.54			2,614.54	179,252.65
241.31	6,657.32	391.99	8,628.46	15,919.08	1,210,440.76
21,885.94	257,960.98	40,082.50	510,968.86	830,898.28	47,064,298.62
14,323.03	174,362.76	26,804.80	332,405.98	547,896.57	29,131,997.88
	3,228.88		9,714.14	12,943.02	753,931.65
			720.06	720.06	444,276.75
2,011.05	8,359.44	1,660.96	20,464.06	32,495.51	1,404,441.08
	951.99	13.76	704.93	1,670.68	168,429.61
537.88	4,221.54	255.46	11,853.29	16,868.17	528,810.47
	473.91		3,837.01	4,310.92	699,773.37
798.04	2,718.16	378.79	9,163.23	13,058.22	493,443.23
			171.51	171.51	183,606.79
1,551.02	10,874.06	3,217.57	30,182.67	45,825.32	1,428,246.45
1,261.73	9,335.05	1,580.76	18,767.19	30,944.73	1,319,972.30
161.75	4,046.24	171.00	7,292.26	11,671.25	831,176.06
364.86	2,706.49	406.12	3,675.76	7,153.23	147,458.42
	1,175.72		3,203.39	4,379.11	525,588.16
	18,500.00		11,809.50	30,309.50	1,239,108.29
1,067.00	18,772.00	538.00	27,695.00	48,072.00	2,824,871.68
			12,378.25	12,378.25	1,503,255.70
22,076.36	259,726.24	35,027.22	504,038.23	820,868.05	43,628,387.89
		5,055.28	6,930.63	10,030.23	3,435,910.73
190.42	1,765.26				
453	3,594	586	8,816	13,449	606,046
60	681	106	1,144	1,991	85,400
2	91	3	116	212	15,115
515	4,366	695	10,076	15,652	706,561

STATEMENT "C"**Street Lighting Installations in Municipalities Served by
The Hydro-Electric Power Commission of Ontario**

NOTE: These statistics were last published in the 1941 Annual Report. In subsequent years due to restrictions and economies effected by municipal co-operative action, the general standard of street lighting was lowered and publication of the statistics available would have served no useful purpose.

STATEMENT "D"

(pages 320 to 337)

**Statistics relating to the Supply of Electrical Energy to Consumers
in Ontario Urban Municipalities Served by
The Hydro-Electric Power Commission
for the year 1946**

STATEMENT "E"

(pages 338 to 355)

**Cost of Power to Municipalities and Rates to Consumers for
Domestic Service—Commercial Light Service—Power Service
in Ontario Urban Municipalities Served by
The Hydro-Electric Power Commission
for the year 1946**

STATEMENT "D"

Statistics Relating to the Supply of Electrical Energy to Consumers in Urban Municipalities Served by The Hydro-Electric Power Commission

Regarding the results of Hydro operation from the standpoint of the consumers, the following tabulation gives much useful and interesting information. For each main class of service in each urban municipal utility receiving power at cost from the Commission, Statement "D" lists the revenue, the consumption and the number of consumers, together with unit average costs and consumptions and other pertinent data.

The policy and practice of the Commission has been, and is, to make as widespread and beneficial a distribution of electrical energy as possible, and to extend to every community that can economically be reached by transmission lines, the benefit of electrical service. Even where, in certain localities, by reason of the distance from a source of supply or on account of the small quantity of power required by the municipality, the cost per horsepower to the municipality—and, consequently, the cost of service to the consumer—must unavoidably be higher than in more favourably situated communities, service has not been withheld when the consumers were able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of Statement "D" respecting the average cost to the consumer. It will be observed that the total amount of energy sold in municipalities where circumstances necessitate rates which result in the higher average costs to the consumer is relatively insignificant. With respect to power service, it should be noted that the statistics of Statement "D", and of the diagram, cover mainly retail power service supplied to the smaller industrial consumers. The average amount of power taken by the industrial consumers served by the municipalities is about 45 horsepower. The Commission serves certain large power consumers direct on behalf of the systems of municipalities.

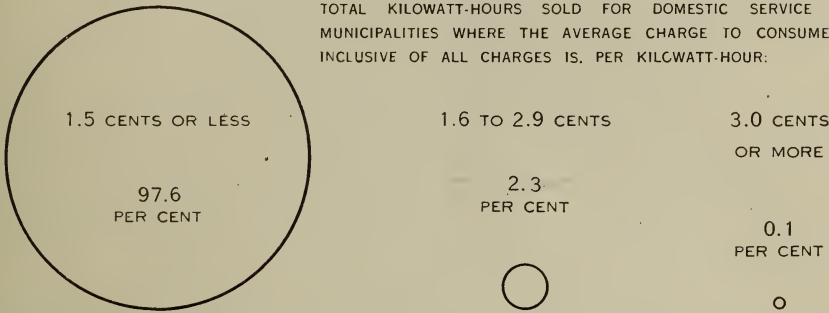
It should be kept in mind that the revenues reported in Statement "D", and used for purposes of calculating the net unit costs to the consumer, are the total revenues contributed by the consumers, and provide, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the consumers.

It should also be noted that average costs per kilowatt-hour or per horsepower if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give misleading results. The average cost per kilowatt-hour, as given in Statement "D" for respective classes of service in each municipality, are statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to consumers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour to the consumers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where for a class of consumers in one municipality, the average costs per kilowatt-hour are substantially lower than for the same class in another municipality, even though the rates are higher.

COST OF ELECTRICAL SERVICE TO CONSUMERS
IN MUNICIPALITIES SERVED BY
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

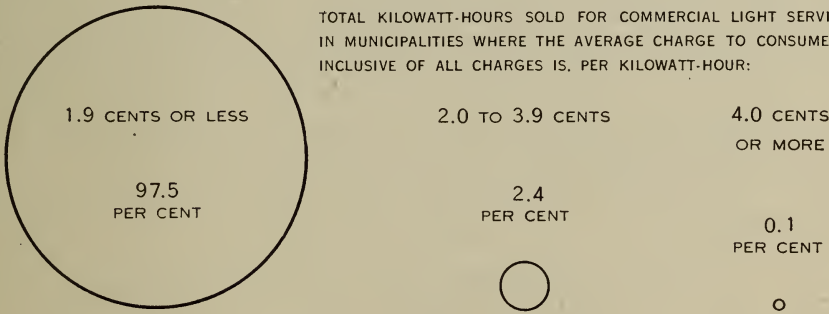
DOMESTIC SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILCWATT-HOUR:



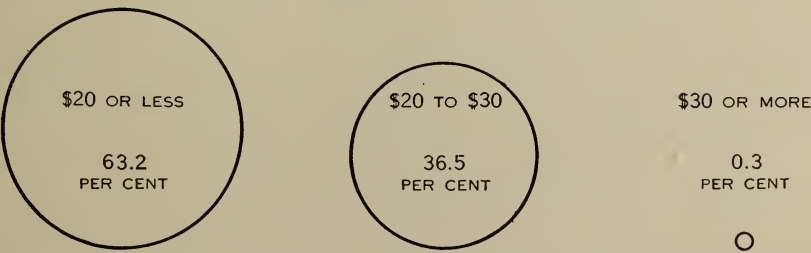
COMMERCIAL LIGHT SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



POWER SERVICE SUPPLIED BY MUNICIPALITIES

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE AGGREGATE HORSEPOWER SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER HORSEPOWER PER YEAR.



With respect to domestic service, for example, instances may be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the consumer varies by as much as 50 per cent or more. Such variations are due principally to differences in the extent of utilization of the service for the operation of electric ranges, water heaters and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

In the case of power service, average unit costs are still less reliable as an indication of the relative rates for service in different municipalities. In the case of hydro-electric power supplied to industries at cost, the rate schedules incorporate charges both for demand and for energy consumption, and thus, although the quantity of power taken by a consumer—that is, the demand as measured in horsepower—is the most important factor affecting costs and revenues, it is not the only one. The number of hours the power is used in the month or year—which, in conjunction with the power, determines the energy consumption, as measured in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per horsepower to the consumer will vary in accordance with the consumers' average number of hours use of the power per month. A greater average energy consumption per horsepower increases the average cost per horsepower and decreases the average cost per kilowatt-hour to the consumer, and *vice versa*.*

*In view of the fact that the data of Statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *not a criterion of rates* even with similar forms of rate schedules and for the same class of service. Particularly is this true when revenues and consumptions of all classes of service and of all kinds of rate schedules, are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

In one community rates for each class of service, and the cost to every consumer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community a lower "average revenue per kilowatt-hour."

EXAMPLE.—Assume sales of electrical energy by two electric utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A Higher rates and lower revenues per kilowatt-hour			CASE B Lower rates and higher revenues per kilowatt-hour		
	Energy sales	Rate per kw-hr.	Revenue	Energy sales	Rate per kw-hr.	Revenue
	kw-hr.	cents	\$	kw-hr.	cents	\$
Residence.....	1,000,000	4	40,000	3,000,000	3	90,000
Power.....	9,000,000	1	90,000	7,000,000	0.75	52,500
Total.....	10,000,000	....	130,000	10,000,000	....	142,500
Average revenue....	1.3 cents per kw-hr.			1.425 cents per kw-hr.		

It will be observed that in Case A the rates both for residence and for power service are 33 per cent *higher* than in Case B, but the *average revenue* per kilowatt-hour is nearly 9 per cent less.

In this instance, the explanation lies in the *relative quantities* of energy sold to each class. Service to large power consumers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light consumers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.

Although the derived statistics of Statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil a function in affording a general measure of the *economy of service* to consumers in the co-operating Ontario municipalities—an economy that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made possible by the low rates.

Actual bills rendered to typical consumers for similar service under closely comparable circumstances constitute the best basis for making comparisons. In researches respecting rates to consumers therefore the actual *rates schedules* of Statement "E" should be employed and not statistics of average revenues per kilowatt-hour, as these are valueless for rate comparisons—and particularly so when all classifications of service are combined.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as set forth in Statement "E", or on the derived statistics resulting from the rates and other factors as presented in Statement "D"—full account should be taken respectively of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments, the sizes and concentrations of adjacent markets for electricity, and the sizes and characters of the loads supplied under the various classifications by the local electrical utility to the consumers.

In Statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) towns of 2,000 to 10,000 population; or (iii) small towns less than 2,000 population, villages, and suburban areas in townships. The populations are also given, and the situation of any municipality with respect to transmission lines and power supplies may be ascertained by consulting the maps at the end of the Report.

A feature of the electrical service in Ontario municipalities served by The Hydro-Electric Power Commission is the strikingly large average annual consumption per domestic consumer. All of the 96 cities and towns with populations of 2,000 or more—in which over 85 per cent of the domestic consumers of the undertaking are served—have an average annual consumption per domestic consumer in excess of 1,000 kilowatt-hours; of these, 85 have an average annual consumption per domestic consumer in excess of 1,500 kilowatt-hours, 64 in excess of 2,000 kilowatt-hours, and 23 in excess of 3,000 kilowatt-hours. In addition 165 smaller urban municipalities have an average annual consumption per domestic consumer exceeding 1,000 kilowatt-hours, including 49 in excess of 2,000 kilowatt-hours.

The high average consumption for domestic service results essentially from the policy of the undertaking in providing service "at cost"; the rate schedules designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 0.8 to 1.2 cents (less 10 per cent) are in common use, and as a rule even where the higher initial rates per kilowatt-hour obtain, it is only necessary for the domestic consumer to reach a monthly charge of from \$2.00 to \$3.00 to obtain the benefit of a follow-up rate of 1.8 cents net or less. The cost of electric cooking is thus within reach of most of the domestic consumers in Ontario. Electric water heating is also encouraged by low flat rates for continuous heaters and by installation of equipment without capital cost to the consumer. In 1941, war conditions made necessary the suspension of new installations for water heating.

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group I—CITIES

Municipality	System	Popula- tion	Domestic service					Average monthly consumption Average monthly bill	Net cost per kw-hr.
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill		
			\$ c.	kw-hr.		kw-hr.	\$ c.		cents
Belleville.....	S.O.	15,967	116,981.29	15,751,211	4,111	319	2.37		0.74
Brantford.....	S.O.	34,267	201,669.25	22,039,946	8,768	217	1.99		0.91
Chatham.....	S.O.	18,033	115,812.31	8,178,765	4,768	143	2.02		1.41
Fort William.....	T.B.	30,590	287,076.66	49,125,732	7,855	521	3.04		0.58
Galt.....	S.O.	14,703	121,136.88	11,726,958	4,827	202	2.09		1.03
Guelph.....	S.O.	23,225	139,497.56	13,835,780	5,823	198	1.99		1.00
Hamilton.....	S.O.	175,039	1,011,337.92	105,422,604	44,725	196	1.88		0.96
Kingston.....	S.O.	36,697	230,238.63	30,092,787	8,366	299	2.29		0.76
Kitchener.....	S.O.	36,165	268,870.93	27,531,887	9,168	250	2.44		0.96
London.....	S.O.	79,562	630,502.72	69,426,808	21,332	271	2.46		0.91
Niagara Falls.....	S.O.	19,138	129,944.68	17,031,123	5,222	272	2.07		0.76
North Bay.....	N.O.P.	15,968	111,503.26	10,055,377	3,594	233	2.59		1.11
Oshawa.....	S.O.	26,454	261,825.64	22,027,326	7,158	256	3.04		1.18
Ottawa.....	S.O.	163,690	745,655.64	93,507,146	16,108	484	3.86		0.80
Owen Sound.....	S.O.	14,014	91,416.89	8,102,979	3,887	174	1.96		1.12
Peterborough.....	S.O.	32,242	222,322.07	24,929,798	8,125	255	2.28		0.89
Port Arthur.....	T.B.	25,373	176,617.30	24,396,400	6,640	306	2.22		0.72
St. Catharines.....	S.O.	34,559	204,173.65	22,870,642	9,081	210	1.87		0.89
St. Thomas.....	S.O.	18,190	156,661.88	17,152,354	4,803	298	2.72		0.91
Sarnia.....	S.O.	20,060	138,654.93	10,857,560	5,751	157	2.01		1.28
Stratford.....	S.O.	17,092	162,788.53	14,762,518	4,646	265	2.92		1.10
Sudbury.....	N.O.P.	36,299	270,861.21	21,195,682	8,816	200	2.56		1.27
Toronto.....	S.O.	681,802	4,466,153.65	457,182,674	155,499	245	2.40		0.98
Toronto D.C. & 60 cycle*			8,583.36	298,800	143	174	4.99		2.87
Welland.....	S.O.	15,780	56,984.90	5,927,838	3,318	149	1.43		0.96
Windsor.....	S.O.	117,539	772,984.30	71,296,577	27,414	219	2.38		1.08
Woodstock.....	S.O.	12,916	97,683.67	10,140,840	3,530	239	2.31		0.96

* This—with the exception of a relatively small D.C. power load—is a special service not created by The Hydro-Electric Power Commission but acquired through the purchase of a privately-owned company. It does not include street railway power.

GROUP II—TOWNS

Almonte.....	S.O.	2,250	15,161.70	1,826,675	689	221	1.83		0.83
Amherstburg.....	S.O.	2,826	27,303.72	2,553,605	791	269	2.88		1.07
Arnprior.....	S.O.	4,010	21,364.68	1,624,840	957	141	1.86		1.31
Aurora.....	S.O.	3,004	27,581.97	2,219,937	833	239	2.74		1.24
Aylmer.....	S.O.	2,475	18,586.36	1,699,262	815	174	1.90		1.09
Barrie.....	S.O.	10,583	95,058.56	9,329,930	2,646	294	2.99		1.02
Bowmanville.....	S.O.	†3,847	36,544.41	2,940,388	1,190	205	2.55		1.24
Brampton.....	S.O.	6,157	55,799.70	5,542,174	1,688	274	2.75		1.00
Brockville.....	S.O.	11,077	75,372.43	7,781,816	3,229	201	1.95		0.97
Burlington.....	S.O.	4,347	49,590.71	3,828,101	1,370	233	3.02		1.30
Carleton Place.....	S.O.	4,239	25,888.14	2,114,525	1,128	156	1.91		1.22
Clinton.....	S.O.	2,091	15,527.06	1,454,915	617	197	2.10		1.07
Cobourg.....	S.O.	4,996	46,285.97	3,488,484	1,511	192	2.55		1.32
Collingwood.....	S.O.	6,835	38,183.26	2,872,961	1,713	131	1.86		1.33
Delhi.....	S.O.	2,063	16,222.26	1,009,524	666	126	2.03		1.61

† Does not include Summer population.

"D"

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1946

Population, 10,000 or more

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
69,292.45	6,389,443	668	797	8.64	1.08	56,494.83	122	3,824.1	4,901
107,025.89	10,933,386	1,393	654	6.40	0.98	326,858.79	222	20,509.0	10,383
118,586.44	8,328,261	875	793	11.29	1.42	108,635.60	132	5,932.2	5,775
108,262.29	12,027,349	1,170	857	7.71	0.90	108,072.59	124	6,832.5	9,149
71,032.08	4,749,103	507	781	11.68	1.49	169,119.41	143	9,647.8	5,477
66,418.86	5,716,267	819	582	6.75	1.16	165,875.73	151	10,210.5	6,793
612,125.47	57,930,316	5,773	836	8.84	1.06	2,728,629.25	1,134	157,722.7	51,632
144,840.12	14,917,875	1,089	1,141	11.08	0.97	176,151.09	194	10,238.2	9,649
157,999.84	11,666,515	1,136	856	11.59	1.40	476,589.30	293	25,733.3	10,597
255,230.07	23,080,395	2,453	784	8.67	1.11	582,091.78	453	34,014.6	24,238
85,390.55	8,259,346	801	859	8.88	1.03	120,580.80	125	7,241.0	6,148
64,879.24	4,742,254	681	580	7.94	1.12	60,582.98	91	2,566.5	4,366
92,656.28	5,458,953	754	603	10.24	1.69	341,539.06	119	15,585.3	8,031
341,364.17	26,996,760	1,511	1,489	18.83	1.26	94,632.64	208	5,805.5	17,827
59,774.89	4,175,902	577	603	8.63	1.43	103,461.17	107	5,713.7	4,571
105,263.18	7,996,631	1,063	627	8.25	1.32	279,138.39	192	15,311.8	9,380
103,913.64	9,828,791	946	876	9.15	1.05	295,394.13	134	21,427.4	7,720
118,136.91	11,389,959	1,168	813	8.43	1.04	378,311.13	218	23,932.0	10,467
68,282.00	6,280,277	608	861	9.36	1.09	81,970.06	87	5,027.6	5,498
74,502.88	5,706,747	683	696	9.09	1.31	73,058.20	94	3,846.3	6,528
69,049.02	4,470,083	636	586	9.05	1.54	68,675.04	133	4,019.0	5,415
145,340.92	8,698,550	1,144	634	10.58	1.67	56,351.06	116	2,534.8	10,076
3,159,731.52	258,742,455	24,836	868	10.59	1.22	4,892,333.82	4,787	236,568.0	185,122
49,573.51	1,349,230	273	412	15.13	3.67	278,785.80	698	10,674.0	1,114
44,997.16	4,272,152	488	730	7.68	1.05	183,928.27	93	11,287.4	3,899
443,865.68	35,386,566	3,440	857	10.75	1.25	735,017.56	527	42,458.0	31,381
62,087.72	5,165,345	520	828	9.95	1.20	100,603.56	108	6,470.0	4,158

NOTE—The above group of 26 cities utilizes about 80 per cent of the power distributed by the Commission to Ontario municipalities.

‡ Does not include street railway power.

of Population, 2,000 or more.

6,108.65	513,833	110	389	4.63	1.19	8,497.20	24	506.0	823
10,869.42	837,505	153	456	5.92	1.30	10,354.92	16	495.4	960
12,476.68	721,105	226	266	4.60	1.73	22,807.24	24	1,226.9	1,207
10,407.14	799,842	125	533	6.94	1.30	21,470.22	18	1,037.2	976
14,159.42	1,156,450	160	602	7.37	1.22	9,719.26	24	608.9	999
53,826.57	3,855,019	449	716	9.98	1.40	46,527.03	68	2,444.0	3,163
13,118.73	758,941	187	338	5.84	1.72	55,241.94	28	2,692.7	1,405
24,656.00	1,774,655	293	505	7.01	1.39	25,554.40	58	1,563.1	2,039
32,724.88	2,872,100	412	581	6.62	1.14	97,249.55	76	5,404.7	3,717
21,907.32	1,366,698	162	71	1.13	1.60	20,746.41	21	794.6	1,553
12,280.52	678,694	195	290	5.25	1.81	29,521.40	19	1,651.0	1,342
9,218.38	560,945	132	354	5.82	1.64	6,255.27	18	345.4	767
26,254.06	1,514,669	256	493	6.54	1.73	32,289.21	53	1,451.8	1,820
18,284.20	1,244,071	283	366	5.38	1.47	35,999.04	56	2,090.5	2,052
14,188.62	691,121	171	337	6.91	2.05	6,180.75	10	297.7	847

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group II—TOWNS

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Dundas.....	S.O.	5,588	30,294.70	2,173,340	1,499	121	1.68	1.39
Dunnville.....	S.O.	4,342	16,280.12	1,217,616	1,102	92	1.23	1.34
Elmira.....	S.O.	2,182	17,267.45	1,538,203	583	220	2.47	1.12
Fergus.....	S.O.	2,624	21,333.92	1,673,510	790	177	2.25	1.27
Forest Hill.....	S.O.	13,960	223,122.61	23,681,153	3,867	510	4.81	0.94
Georgetown.....	S.O.	2,468	27,526.61	2,326,770	906	214	2.53	1.18
Goderich.....	S.O.	*4,728	39,170.46	3,035,196	1,390	182	2.35	1.29
Gravenhurst.....	S.O.	*2,485	14,572.42	1,439,134	663	189	1.83	1.01
Hanover.....	S.O.	3,133	24,532.20	1,844,098	884	174	2.31	1.33
Hespeler.....	S.O.	2,936	20,593.02	1,667,529	865	161	1.98	1.23
Humberstone.....	S.O.	3,287	12,950.85	905,580	801	94	1.35	1.43
Huntsville.....	S.O.	*2,750	18,928.90	1,847,522	766	201	2.06	1.02
Ingersoll.....	S.O.	5,826	38,254.62	3,342,896	1,609	173	1.98	1.14
Kincardine.....	S.O.	*2,337	16,965.75	993,104	772	107	1.83	1.71
Kingsville.....	S.O.	*2,380	16,717.61	1,181,197	668	147	2.09	1.42
Leamington.....	S.O.	*5,456	31,556.97	2,875,553	1,782	134	1.48	1.10
Lindsay.....	S.O.	7,740	56,996.02	5,092,975	2,338	182	2.03	1.12
Listowel.....	S.O.	3,209	20,548.12	1,693,141	851	166	2.01	1.21
Long Branch.....	S.O.	5,186	41,055.73	3,830,739	1,725	185	1.98	1.07
Meaford.....	S.O.	2,650	17,533.20	1,119,763	820	101	1.78	1.56
Merriton.....	S.O.	3,407	22,075.22	1,956,726	1,001	163	1.84	1.13
Midland.....	S.O.	*6,863	42,988.34	3,410,670	1,773	160	2.02	1.26
Mimico.....	S.O.	8,353	74,878.06	7,423,084	2,418	256	2.58	1.01
Napanee.....	S.O.	3,362	30,764.92	2,623,219	941	232	2.72	1.17
Newmarket.....	S.O.	3,990	37,323.08	3,743,041	1,110	281	2.80	1.00
New Toronto.....	S.O.	7,182	52,408.89	5,006,422	2,136	195	2.04	1.05
Orangeville.....	S.O.	2,633	20,913.44	1,475,515	772	159	2.26	1.42
Paris.....	S.O.	4,531	30,404.31	2,699,498	1,230	183	2.06	1.13
Penetanguishene.....	S.O.	4,018	16,007.92	1,103,654	855	108	1.56	1.45
Perth.....	S.O.	4,265	33,581.54	2,625,382	1,159	189	2.41	1.28
Petrolia.....	S.O.	2,684	16,132.90	986,760	836	98	1.61	1.63
Pictou.....	S.O.	3,542	28,464.02	2,581,650	1,221	176	1.94	1.10
Port Colborne.....	S.O.	7,187	33,575.47	2,380,830	1,718	115	1.63	1.41
Port Credit.....	S.O.	2,250	22,016.52	2,381,723	685	290	2.68	0.92
Port Dover.....	S.O.	*2,073	12,651.63	872,617	822	88	1.28	1.45
Port Hope.....	S.O.	4,898	40,347.47	3,725,778	1,524	204	2.21	1.08
Prescott.....	S.O.	3,194	27,156.63	1,846,042	837	184	2.70	1.47
Preston.....	S.O.	6,701	45,025.42	4,158,280	1,763	196	2.13	1.09
Renfrew.....	S.O.	5,781	33,265.54	2,308,686	1,449	133	1.91	1.45
Riverside.....	S.O.	5,938	46,465.67	3,434,643	1,749	164	2.21	1.35
St. Marys.....	S.O.	3,643	35,360.70	2,682,564	1,116	200	2.64	1.32
Simcoe.....	S.O.	6,063	30,826.49	2,665,071	1,724	129	1.49	1.16
Smiths Falls.....	S.O.	7,736	58,763.72	5,478,704	2,123	215	2.31	1.07
Strathroy.....	S.O.	3,001	29,049.06	2,587,700	864	250	2.80	1.12
Swansea.....	S.O.	7,142	70,950.47	7,821,826	2,134	305	2.77	0.91

* Does not include Summer population.

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1946

population 2,000 or more—Continued

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
20,123.60	1,219,959	212	480	7.91	1.64	43,352.92	42	2,774.1	1,753
16,628.02	1,325,359	258	428	5.37	1.25	21,804.95	30	1,394.0	1,390
10,754.91	666,480	136	408	6.59	1.61	29,675.82	30	1,298.5	749
9,270.99	595,695	115	432	6.72	1.56	21,064.98	15	1,044.8	920
33,662.55	2,269,487	300	630	9.35	1.48	3,147.25	28	197.5	4,195
10,876.69	673,917	136	401	6.66	1.61	44,089.47	27	2,043.0	1,069
20,007.08	1,164,732	269	361	6.20	1.72	22,308.39	27	1,098.7	1,686
12,916.89	1,310,027	115	949	9.36	0.99	19,242.19	17	939.6	795
10,094.22	584,834	146	333	5.76	1.73	26,033.21	27	1,209.4	1,057
8,565.50	549,332	97	472	7.36	1.56	61,224.43	33	2,899.8	995
5,441.28	384,148	89	360	5.09	1.42	6,818.01	14	410.2	904
15,057.59	1,075,510	141	636	8.90	1.40	15,902.26	16	274.6	923
20,861.25	1,545,586	244	528	7.12	1.35	47,605.10	50	2,853.7	1,903
9,719.00	416,730	136	255	5.96	2.33	14,967.45	20	579.6	928
12,038.42	764,958	172	371	5.83	1.57	6,204.61	25	368.7	865
23,122.27	2,496,291	311	669	6.20	0.93	31,863.66	39	1,670.2	2,132
36,055.84	2,306,407	378	508	7.95	1.56	39,985.88	73	2,248.7	2,789
14,010.51	903,567	167	451	6.99	1.55	20,531.34	29	1,065.2	1,047
8,318.65	601,876	133	377	5.21	1.38	20,160.94	15	1,128.2	1,873
11,495.53	624,252	170	306	5.63	1.84	13,917.99	22	686.3	1,012
5,319.11	385,699	68	473	6.52	1.38	201,414.82	20	10,733.0	1,089
21,534.86	1,442,795	225	534	7.98	1.49	77,079.33	59	4,892.6	2,057
14,638.87	1,096,854	173	528	7.05	1.33	18,495.36	29	899.6	2,620
22,832.29	1,352,205	223	505	8.53	1.69	14,237.33	28	792.8	1,192
23,764.54	1,461,984	204	596	9.71	1.63	20,611.92	34	1,717.7	1,348
22,332.73	2,127,866	218	813	8.54	1.05	185,602.62	40	9,551.0	2,394
14,922.04	887,065	196	377	6.34	1.68	6,918.29	29	425.4	997
12,013.44	898,646	195	384	5.13	1.34	25,892.63	26	1,628.2	1,451
10,052.22	638,352	120	443	6.98	1.57	24,721.42	19	1,107.3	994
20,072.32	1,301,968	202	537	8.28	1.54	18,483.03	32	1,052.0	1,393
10,716.63	597,508	153	325	5.84	1.79	28,337.13	58	1,086.7	1,047
18,896.51	1,457,835	240	506	6.56	1.29	9,879.48	37	687.5	1,498
23,643.66	1,528,094	246	518	8.01	1.55	24,127.05	26	1,271.0	1,990
8,500.51	604,104	90	559	7.87	1.41	6,230.57	14	305.3	789
7,703.23	530,746	142	311	4.52	1.45	7,052.12	19	394.0	983
18,482.35	1,231,115	219	468	7.03	1.50	46,867.03	45	2,417.1	1,788
14,560.03	871,242	160	452	7.58	1.67	12,103.60	28	944.7	1,025
24,305.69	1,654,756	235	587	8.62	1.47	60,627.96	52	3,682.0	2,050
20,972.10	1,503,911	233	538	7.50	1.39	43,971.21	66	2,080.0	1,748
7,151.57	467,900	91	428	6.55	1.53	8,189.90	14	382.4	1,854
14,875.41	790,320	192	343	6.46	1.88	25,610.78	38	1,439.5	1,346
35,131.28	3,275,534	423	645	6.92	1.07	35,071.86	52	1,914.3	2,199
22,391.52	1,738,735	301	481	6.20	1.29	32,031.95	41	1,727.6	2,465
15,400.94	986,464	203	405	6.32	1.56	18,555.17	34	1,159.3	1,101
10,261.80	711,520	99	599	8.64	1.44	25,394.17	16	1,273.3	2,249

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
 For Domestic Service, for Commercial Light Service
 Group II—TOWNS

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Tecumseh.....	S.O.	*2,794	16,650.24	959,484	765	105	1.81	1.74
Thorold.....	S.O.	5,517	22,457.53	2,221,748	1,317	141	1.42	1.01
Tillsonburg.....	S.O.	4,172	24,795.92	2,013,896	1,316	128	1.57	1.23
Trenton.....	S.O.	9,849	43,490.60	5,262,453	1,938	226	1.87	0.83
Walkerton.....	S.O.	2,566	23,023.47	1,326,758	723	153	2.65	1.73
Wallaceburg.....	S.O.	5,088	32,895.05	2,157,603	1,673	107	1.64	1.52
Waterloo.....	S.O.	9,452	74,210.66	9,471,035	2,415	327	2.56	0.78
Weston.....	S.O.	6,333	63,784.75	7,633,985	1,763	361	3.01	0.84
Whitby.....	S.O.	4,595	36,717.12	3,187,739	1,093	243	2.80	1.15
Wingham.....	S.O.	2,155	17,997.21	1,149,556	609	157	2.46	1.57

* Does not include Summer population.

Group III—SMALL TOWNS (less than 2,000 population),

			\$ c.	kw-hr.		kw-hr.	\$ c.	cent ^s
Acton.....	S.O.	1,976	17,189.88	1,485,809	596	208	2.40	1.2
Agincourt.....	S.O.	P.V.	7,637.75	615,030	177	289	3.60	1.2
Ailsa Craig.....	S.O.	395	3,288.10	224,080	162	115	1.69	1.5
Alexandria.....	S.O.	1,904	10,175.66	545,317	461	98	1.84	1.9
Alliston.....	S.O.	1,528	14,318.63	913,475	452	102	2.64	1.6
Alvinston.....	S.O.	611	4,070.05	153,120	225	57	1.51	2.7
Ancaster Twp.....	S.O.	.....	15,421.86	1,186,456	408	242	3.15	1.3
Apple Hill.....	S.O.	P.V.	1,596.00	49,825	72	58	1.85	3.2
Arkona.....	S.O.	374	3,068.73	125,310	126	83	2.03	2.4
Arthur.....	S.O.	922	6,065.38	277,165	267	87	1.89	2.2
Athens.....	S.O.	714	4,517.93	126,442	185	57	2.03	3.6
Ayr.....	S.O.	718	6,678.58	486,435	239	170	2.33	1.4
Baden.....	S.O.	P.V.	4,766.95	414,991	170	203	2.34	1.1
Bath.....	S.O.	*323	3,335.88	106,620	82	108	3.39	3.1
Beachville.....	S.O.	P.V.	4,420.80	339,687	173	164	2.13	1.3
Beamsville.....	S.O.	1,338	12,911.30	1,446,778	425	284	2.53	0.9
Beaverton.....	S.O.	*842	8,548.25	531,626	344	129	2.07	1.6
Beeton.....	S.O.	507	3,871.53	170,945	154	93	2.10	2.3
Belle River.....	S.O.	845	7,001.08	372,320	349	89	1.67	1.9
Blenheim.....	S.O.	1,873	11,082.26	798,908	584	114	1.58	1.4
Bloomfield.....	S.O.	624	3,639.80	239,998	185	108	1.64	1.5
Blyth.....	S.O.	632	4,305.78	208,653	198	88	1.81	2.1
Bobcaygeon†.....	S.O.	*977	5,247.83	183,923	409	38	1.07	2.9
Bolton.....	S.O.	621	5,619.72	607,625	207	245	2.26	0.9
Bothwell.....	S.O.	574	3,171.64	219,506	196	93	1.35	1.4
Bradford.....	S.O.	1,075	8,617.49	483,180	301	134	2.39	1.8
Braeside.....	S.O.	405	1,980.83	90,460	96	79	1.72	2.2
Brantford Twp.....	S.O.	.....	50,803.95	4,143,217	1,899	182	2.23	1.2
Brechin.....	S.O.	P.V.	1,828.79	71,992	63	95	2.42	2.5
Bridgeport.....	S.O.	P.V.	5,697.35	393,993	192	179	2.58	1.4

* Does not include Summer population.

† Six months' operation.

“D”—Continued

in Ontario Municipalities Served by the Commission

and for Power Service during the year 1946

population 2,000 or more—Continued

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
5,736.28	322,195	65	413	7.35	1.78	1,982.78	4	101.4	834
9,322.73	980,177	141	579	5.51	0.95	60,604.78	23	3,120.0	1,481
24,028.07	2,089,393	280	622	7.15	1.15	20,875.14	41	1,238.2	1,637
23,351.94	1,660,994	291	476	6.69	1.40	89,315.83	53	4,483.5	2,282
15,650.86	848,990	138	513	9.45	1.84	12,804.78	19	484.5	880
20,150.90	1,369,689	281	406	5.98	1.47	138,027.97	58	6,054.3	2,012
29,465.12	2,640,616	281	783	8.74	1.11	78,744.96	80	4,234.1	2,776
17,322.26	1,540,839	197	652	7.33	1.12	70,838.87	34	3,986.4	1,994
16,320.83	1,076,694	173	519	7.86	1.51	22,519.01	34	1,008.9	1,300
12,963.64	635,015	150	353	7.20	2.04	23,624.51	24	869.6	783

VILLAGES AND SUBURBAN AREAS

\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
7,847.63	603,859	111	453	5.89	1.3	33,218.67	20	1,612.8	727
2,001.91	76,797	31	204	5.38	2.6	1,655.66	5	81.8	213
1,238.82	63,478	34	156	3.04	1.9	1,707.27	4	75.1	200
6,803.90	332,256	117	237	4.84	2.0	6,053.65	19	186.9	597
9,901.58	472,592	127	310	6.49	2.1	7,198.06	23	351.5	602
2,416.34	96,054	58	138	3.47	2.5	1,872.48	5	62.5	288
4,851.27	219,925	51	359	7.93	2.2	1,000.58	9	69.5	468
952.52	40,043	21	159	3.78	2.4	573.40	2	24.4	95
1,481.49	54,382	36	126	3.43	2.7	308.05	2	9.2	164
6,154.57	210,226	88	200	5.83	2.9	1,904.02	7	81.8	362
1,959.99	68,710	43	133	3.80	2.9	810.41	1	33.1	229
2,740.52	134,616	49	229	4.66	2.0	2,466.35	7	108.2	295
2,186.46	143,638	34	352	5.36	1.5	10,378.90	3	500.5	207
793.45	27,180	14	162	4.72	2.9	.....	.....	.....	96
670.21	31,776	22	120	2.54	2.1	18,931.09	4	775.9	199
5,219.97	434,627	76	477	5.72	1.2	2,412.22	7	152.8	508
3,659.74	201,980	68	248	4.48	1.8	1,416.95	8	72.0	420
2,158.99	85,595	37	193	4.86	2.5	435.11	5	23.7	196
3,764.91	218,609	58	314	5.41	1.7	1,422.26	4	44.1	411
11,449.74	779,840	156	417	6.12	1.5	9,933.49	17	489.1	757
2,351.05	107,064	40	223	4.90	2.2	1,402.35	7	76.6	232
2,347.01	91,665	56	136	3.49	2.6	1,147.89	6	54.6	260
3,034.29	202,031	76	238	3.33	1.5	431.01	6	44.3	491
2,277.42	124,294	49	211	3.87	1.8	3,796.74	13	153.5	269
2,415.66	161,679	61	221	3.30	1.5	1,301.19	8	121.8	265
6,836.63	288,998	79	305	7.21	2.4	5,568.74	14	240.6	394
401.82	10,944	9	101	3.72	3.7	5,394.13	2	265.0	107
7,532.38	489,039	87	468	7.21	1.5	8,480.80	9	424.6	1,995
945.94	35,866	24	125	3.28	2.6	763.86	1	30.0	88
1,694.88	85,268	27	263	5.17	2.0	2,329.69	4	104.7	223

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Brigden.....	S.O.	P.V.	2,393.51	110,560	131	70	1.52	2.2
Brighton.....	S.O.	1,726	14,182.39	855,263	612	116	1.93	1.6
Brussels.....	S.O.	748	5,557.63	209,765	259	67	1.79	2.6
Burford.....	S.O.	P.V.	6,078.84	546,731	241	189	2.10	1.1
Burgessville.....	S.O.	P.V.	1,969.90	105,425	64	137	2.56	1.9
Caledonia.....	S.O.	1,435	7,898.15	530,863	466	95	1.41	1.5
Campbellville.....	S.O.	P.V.	1,483.70	101,250	56	151	2.21	1.5
Cannington.....	S.O.	812	6,466.81	360,182	274	110	1.97	1.8
Capreol.....	N.O.P.	1,680	11,360.30	638,920	453	118	2.09	1.8
Cardinal.....	S.O.	1,639	10,518.01	790,050	399	165	2.20	1.3
Cayuga.....	S.O.	619	4,938.40	211,773	200	88	2.06	2.3
Chatsworth.....	S.O.	338	2,696.83	166,060	121	114	1.86	1.6
Chesley.....	S.O.	1,548	11,042.95	913,295	478	159	1.93	1.2
Chesterville.....	S.O.	1,047	6,149.52	505,130	265	159	1.93	1.2
Chippawa.....	S.O.	1,251	8,841.97	968,052	368	219	2.00	0.9
Clifford.....	S.O.	431	3,258.98	177,030	138	107	1.97	1.8
Cobden.....	S.O.	611	3,520.38	219,482	179	102	1.64	1.6
Colborne.....	S.O.	907	8,603.17	506,987	294	144	2.44	1.7
Coldwater.....	S.O.	595	4,326.02	283,850	167	142	2.16	1.5
Comber.....	S.O.	P.V.	2,505.69	126,140	132	80	1.58	2.0
Cookstown.....	S.O.	P.V.	2,977.23	120,980	130	78	1.91	2.5
Cottam.....	S.O.	P.V.	3,091.13	164,060	146	94	1.76	1.9
Courtright.....	S.O.	386	1,878.94	77,900	107	61	1.46	2.4
Creemore.....	S.O.	631	4,496.33	249,665	192	108	1.95	1.8
Dashwood.....	S.O.	P.V.	2,762.31	139,591	107	109	2.15	2.0
Delaware.....	S.O.	P.V.	2,586.48	190,612	76	209	2.84	1.4
Deseronto.....	S.O.	1,271	10,366.71	539,108	410	109	2.11	1.9
Dorchester.....	S.O.	P.V.	3,302.76	219,125	158	116	1.74	1.5
Drayton.....	S.O.	509	4,367.92	172,860	175	82	2.08	2.5
Dresden.....	S.O.	1,532	9,236.34	556,399	514	90	1.50	1.7
Drumbo.....	S.O.	P.V.	3,014.23	175,240	97	151	2.59	1.7
Dublin.....	S.O.	P.V.	1,752.10	78,780	69	95	2.12	2.2
Dundalk.....	S.O.	705	5,066.60	312,325	223	117	1.89	1.6
Durham.....	S.O.	1,976	9,203.86	593,141	485	102	1.58	1.6
Dutton.....	S.O.	812	3,724.35	260,670	242	90	1.28	1.4
East York Twp.....	S.O.	.....	327,857.81	26,594,873	12,928	171	2.11	1.2
Elmvale.....	S.O.	P.V.	4,185.21	270,960	205	110	1.70	1.5
Elmwood.....	S.O.	P.V.	1,505.65	64,573	81	66	1.55	2.3
Elora.....	S.O.	1,167	9,503.02	647,677	369	146	2.15	1.5
Embro.....	S.O.	455	4,613.27	275,504	137	168	2.81	1.7
Erieau.....	S.O.	*223	5,684.64	313,368	223	117	2.12	1.8
Esse Beach.....	S.O.	*22	1,663.59	44,493	85	44	1.63	3.7
Essex.....	S.O.	1,920	10,226.95	718,690	550	109	1.55	1.4
Etcobicoke Twp.....	S.O.	.....	276,967.43	27,557,130	7,572	303	3.05	1.0
Exeter.....	S.O.	1,794	17,277.78	1,441,728	576	209	2.50	1.2

* Does not include Summer population.

† Six months' operation.

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1946

VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
1,971.67	92,520	41	188	4.01	2.1	2,433.16	4	75.1	176
5,383.38	316,719	114	232	3.94	1.7	4,563.31	9	236.1	735
3,250.63	112,825	67	140	4.04	2.9	3,478.63	8	124.7	334
2,456.79	165,464	44	313	4.65	1.5	1,987.92	4	126.3	289
709.44	23,696	18	110	3.28	3.0	1,172.03	3	63.5	85
6,084.06	455,881	109	349	4.65	1.3	2,632.33	12	151.4	587
531.13	27,872	11	211	4.02	1.9	379.97	1	8.5	68
3,261.37	127,107	71	149	3.83	2.6	2,641.26	10	144.7	355
4,005.11	215,440	60	199	5.56	1.9	4,893.26	2	158.5	515
2,565.14	165,620	57	242	3.75	1.5	383.19	3	24.7	459
4,845.36	204,261	72	236	5.61	2.4	4,519.07	9	221.9	281
1,467.51	58,085	27	179	4.53	2.1	.....	.....	.....	148
6,012.72	410,160	89	384	5.63	1.5	8,499.13	24	449.7	591
4,795.90	271,450	72	314	5.55	1.8	4,573.92	4	209.4	341
2,450.84	195,333	53	307	3.85	1.3	1,152.83	2	50.8	423
2,271.35	99,742	34	244	5.57	2.3	707.28	2	22.8	174
2,836.99	112,771	54	174	4.38	2.5	2,555.96	3	78.2	236
5,529.83	251,120	78	268	5.91	2.2	1,162.93	8	61.6	380
1,962.78	74,012	50	123	3.27	2.7	3,567.47	4	141.8	221
2,155.34	94,702	46	172	3.90	2.3	3,128.16	7	156.7	185
1,640.74	47,320	36	101	3.80	3.5	1,494.78	4	73.5	170
1,712.41	83,060	28	247	5.10	2.1	962.86	5	53.4	179
861.72	43,869	23	159	3.12	2.0	974.64	1	12.5	131
2,400.39	134,446	53	211	3.77	1.8	1,317.56	3	83.7	248
1,331.26	60,660	27	187	4.11	2.2	1,402.91	3	61.2	137
948.87	42,409	16	221	4.94	2.2	.....	.....	.....	92
4,581.89	183,642	63	243	6.06	2.5	2,930.87	10	126.0	483
1,125.74	52,277	30	145	3.13	2.2	742.62	2	32.1	190
2,751.46	104,146	66	131	3.47	2.6	1,319.81	4	55.0	245
8,886.63	532,015	139	319	5.33	1.7	8,740.59	16	432.3	669
1,331.85	54,061	30	150	3.70	2.5	814.57	1	37.4	128
1,319.16	51,271	28	153	3.93	2.6	1,589.25	2	72.9	99
3,983.41	167,786	79	177	4.20	2.4	3,200.94	7	185.6	309
6,024.45	320,190	115	232	4.37	1.9	5,312.58	19	221.4	619
2,846.09	180,509	69	218	3.44	1.6	3,740.46	11	207.1	322
33,909.86	2,568,276	581	368	4.86	1.3	54,872.82	49	2,656.0	13,558
2,273.38	121,564	56	181	3.38	1.9	3,358.21	7	139.0	268
991.33	31,972	21	127	3.93	3.1	1,978.38	2	70.7	102
4,974.79	279,501	69	338	6.01	1.8	5,272.30	6	286.2	444
1,104.60	54,071	32	141	2.88	2.0	1,920.61	3	72.0	172
1,850.81	82,800	14	493	11.02	2.2	5,321.96	4	149.9	241
226.25	5,867	3	163	6.28	3.9	.....	.....	.....	88
11,006.04	883,583	134	549	6.84	1.2	9,711.38	21	583.9	705
36,191.77	2,609,764	395	550	7.63	1.4	79,865.37	60	4,137.9	8,027
10,348.47	668,064	133	419	6.48	1.5	6,043.76	17	385.1	726

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Finch.....	S.O.	328	2,969.22	142,048	125	103	1.98	2.1
Flesherton.....	S.O.	361	2,513.40	129,140	136	79	1.54	1.9
Fonthill.....	S.O.	1,009	8,098.42	569,275	312	152	2.16	1.4
Forest.....	S.O.	1,679	16,494.60	1,240,590	550	188	2.50	1.3
Glencoe.....	S.O.	703	4,960.23	253,132	246	86	1.68	2.0
Grand Valley.....	S.O.	594	3,811.82	198,510	193	86	1.65	1.9
Granton.....	S.O.	P.V.	2,420.61	118,822	87	114	2.32	2.0
Grimsby.....	S.O.	1,993	19,796.98	1,637,578	682	200	2.42	1.2
Hagersville.....	S.O.	1,562	8,408.20	551,315	434	106	1.61	1.5
Harriston.....	S.O.	1,252	9,729.77	647,663	410	132	1.98	1.5
Harrow.....	S.O.	1,150	14,673.62	1,132,614	375	252	3.26	1.3
Hastings.....	S.O.	*723	5,639.15	247,849	262	79	1.79	2.3
Havelock.....	S.O.	936	5,654.30	310,496	304	85	1.55	1.8
Hensall.....	S.O.	631	5,364.38	314,320	229	114	1.95	1.7
Highgate.....	S.O.	304	2,099.21	101,510	111	76	1.58	2.1
Holstein.....	S.O.	P.V.	1,032.06	42,200	67	52	1.28	2.4
Iroquois.....	S.O.	910	8,584.40	654,112	322	169	2.22	1.3
Jarvis.....	S.O.	557	3,086.72	153,973	164	78	1.57	2.0
Kemptville.....	S.O.	1,200	9,992.77	643,215	409	131	2.04	1.6
Kirkfield.....	S.O.	P.V.	1,038.37	28,030	43	54	2.01	3.7
Lakefield.....	S.O.	1,372	9,111.90	605,926	407	124	1.87	1.5
Lambeth.....	S.O.	P.V.	4,154.90	353,426	151	185	2.29	1.2
Lanark.....	S.O.	734	3,876.14	167,231	193	72	1.67	2.3
Lancaster.....	S.O.	526	2,159.40	103,210	120	72	1.50	2.1
LaSalle.....	S.O.	1,100	11,868.95	739,103	302	204	3.28	1.6
London Twp.....	S.O.	.....	18,533.40	1,581,278	519	254	2.98	1.2
Lucan.....	S.O.	570	5,576.55	424,472	204	173	2.28	1.3
Lucknow.....	S.O.	928	6,332.59	350,411	330	88	1.60	1.8
Lynden.....	S.O.	P.V.	3,200.37	228,620	105	181	2.54	1.4
Madoc.....	S.O.	1,090	6,629.79	370,780	334	93	1.65	1.8
Markdale.....	S.O.	722	4,186.10	422,911	256	138	1.36	1.0
Markham.....	S.O.	1,173	10,854.51	711,962	368	161	2.46	1.5
Marmora.....	S.O.	965	5,381.35	229,285	269	71	1.67	2.3
Martintown.....	S.O.	P.V.	1,127.35	53,560	64	70	1.47	2.1
Maxville.....	S.O.	807	3,621.48	181,159	182	83	1.66	2.0
Merlin.....	S.O.	P.V.	2,407.03	123,376	132	80	1.52	1.9
Mildmay.....	S.O.	767	5,021.29	341,712	196	145	2.13	1.5
Millbrook.....	S.O.	679	5,244.95	196,645	195	84	2.24	2.7
Milton.....	S.O.	1,893	16,152.85	1,258,624	583	180	2.31	1.3
Milverton.....	S.O.	961	6,805.28	556,490	273	170	2.08	1.2
Mitchell.....	S.O.	1,560	16,038.92	1,282,498	545	196	2.45	1.3
Moorefield.....	S.O.	P.V.	1,664.15	81,510	72	94	1.93	2.0
Morrisburg.....	S.O.	*1,436	12,373.12	780,207	431	151	2.39	1.6
Mt. Brydges.....	S.O.	P.V.	3,007.92	194,604	177	92	1.42	1.5
Mt. Forest.....	S.O.	1,787	11,891.11	719,420	523	115	1.89	1.7

* Does not include Summer population.

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1945

VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
2,238.00	73,238	43	142	4.34	3.1	286.37	1	8.3	169
2,197.20	97,943	46	177	3.98	2.2	667.48	2	34.0	184
2,156.75	107,736	41	219	4.38	2.0	771.11	5	42.3	338
9,294.96	524,695	152	288	5.10	1.8	7,206.90	21	346.0	723
5,368.90	237,690	75	264	5.97	2.3	3,875.35	12	180.2	333
2,536.42	124,810	51	204	4.14	2.0	2,543.89	8	128.6	252
1,217.91	59,966	29	172	3.50	2.0	.....	1	7.5	117
14,582.16	1,084,512	143	632	8.50	1.3	15,072.84	17	448.7	842
7,897.50	478,135	127	314	5.18	1.7	19,163.91	19	1,137.4	580
6,852.96	348,656	107	272	5.34	2.0	8,461.11	15	408.9	532
7,619.72	396,156	93	355	6.83	1.9	5,024.62	8	240.5	476
3,114.80	124,156	57	182	4.55	2.5	203.12	3	15.2	322
2,700.09	111,179	54	172	4.17	2.4	2,411.61	3	103.4	361
2,827.35	113,340	58	163	4.06	2.5	3,602.73	17	192.0	304
921.25	38,860	32	101	2.40	2.4	1,569.26	6	77.6	149
359.76	16,674	14	99	2.14	2.2	572.67	2	24.7	83
3,896.81	209,310	66	264	4.92	1.9	1,893.14	5	38.6	393
2,318.35	126,360	42	251	4.60	1.8	3,821.12	4	146.4	210
7,056.91	374,824	84	372	7.00	1.9	4,544.98	5	198.5	498
1,312.46	35,560	18	165	6.08	3.7	.....	.....	.....	61
5,897.24	317,502	79	335	6.22	1.9	7,618.35	12	372.3	498
1,210.02	76,091	27	235	3.73	1.6	808.77	5	66.0	183
3,059.01	142,770	43	277	5.93	2.1	988.43	2	25.9	238
1,240.17	49,000	31	132	3.33	2.5	.....	.....	.....	151
2,094.07	97,694	17	479	10.27	2.1	805.10	3	30.5	322
2,500.79	155,687	19	683	10.97	1.6	1,871.23	5	89.0	543
3,042.57	163,436	55	248	4.61	1.9	1,277.65	5	68.4	264
3,718.98	153,507	95	135	3.26	2.4	14,157.95	10	430.6	435
769.77	33,624	15	187	4.28	2.3	799.99	2	45.0	122
4,691.79	214,537	95	188	4.12	2.2	2,397.11	6	110.4	435
3,480.59	263,181	74	296	3.92	1.3	2,088.85	8	131.1	338
5,114.44	315,888	67	393	6.36	1.6	3,973.95	9	193.3	444
2,801.62	144,605	41	293	5.69	1.9	401.07	1	23.9	311
1,261.53	52,476	24	182	4.38	2.4	51.02	1	5.2	89
2,532.65	100,108	46	181	4.59	2.5	.....	.....	.....	228
2,204.23	103,089	55	156	3.34	2.1	1,378.40	3	61.5	190
3,300.23	136,630	61	187	4.51	2.4	1,813.91	5	57.8	262
2,176.86	50,020	65	64	2.79	4.3	1,821.86	5	59.6	265
8,688.80	565,102	111	424	6.52	1.5	29,306.54	18	1,309.0	712
4,895.35	276,196	82	281	4.97	1.8	6,466.55	11	382.7	366
8,506.00	508,972	146	291	4.86	1.7	8,275.13	28	426.0	719
1,538.64	73,030	29	210	4.42	2.1	1,841.96	2	52.9	103
7,667.35	356,398	112	265	5.70	2.2	4,646.05	19	242.7	562
1,168.08	71,004	40	148	2.43	1.6	909.06	5	60.2	222
10,053.30	532,790	145	306	5.78	1.9	7,089.70	20	368.7	688

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Neustadt.....	S.O.	418	2,473.85	99,312	130	64	1.59	2.5
Newbury.....	S.O.	207	1,649.54	66,209	80	69	1.72	2.5
Newcastle.....	S.O.	*675	6,155.47	409,565	239	143	2.15	1.5
New Hamburg.....	S.O.	1,456	11,450.99	967,013	396	203	2.41	1.2
Niagara-on-the-Lake.....	S.O.	1,802	21,831.50	2,184,626	655	278	2.78	1.0
Nipigon Twp.....	T.B.	V.A.	7,326.11	535,672	294	152	2.08	1.4
North York Twp.....	S.O.	.....	258,190.19	25,201,577	8,397	250	2.56	1.0
Norwich.....	S.O.	1,249	11,407.40	1,032,143	409	210	2.32	1.1
Norwood.....	S.O.	685	6,231.10	322,490	245	110	2.12	1.9
Oil Springs.....	S.O.	396	2,485.13	165,399	114	121	1.82	1.5
Omemée.....	S.O.	598	3,960.81	195,897	179	91	1.84	2.0
Orono.....	S.O.	P.V.	5,518.30	241,425	186	108	2.47	2.3
Otterville.....	S.O.	P.V.	3,338.82	222,940	166	115	1.68	1.6
Paisley.....	S.O.	585	4,821.90	191,240	224	71	1.79	2.5
Palmerston.....	S.O.	1,379	12,761.46	1,033,528	405	213	2.63	1.2
Parkhill.....	S.O.	802	7,251.15	489,405	340	120	1.78	1.5
Plattsville.....	S.O.	P.V.	3,172.98	120,761	128	79	2.07	2.6
Point Edward.....	S.O.	1,360	8,098.17	401,680	370	91	1.82	2.0
Port Dalhousie.....	S.O.	*1,747	25,434.50	2,444,888	743	274	2.85	1.0
Port Elgin.....	S.O.	*1,559	15,394.22	898,020	562	133	2.28	1.7
Port McNicoll.....	S.O.	*869	4,812.10	206,413	250	69	1.60	2.3
Port Perry.....	S.O.	1,288	12,039.34	606,025	405	125	2.48	2.0
Port Rowan.....	S.O.	616	3,693.42	186,060	217	71	1.40	2.0
Port Stanley.....	S.O.	*896	19,361.51	1,440,338	885	136	1.80	1.3
Priceville.....	S.O.	P.V.	731.89	22,326	41	45	1.49	3.3
Princeton.....	S.O.	P.V.	3,110.13	188,670	105	150	2.47	1.6
Queenston.....	S.O.	P.V.	3,247.19	360,423	82	366	3.30	0.9
Richmond.....	S.O.	450	3,163.06	174,070	96	151	2.75	1.8
Richmond Hill.....	S.O.	1,458	14,576.88	1,509,309	457	275	2.66	1.0
Ridgetown.....	S.O.	1,948	10,236.37	782,220	624	104	1.37	1.3
Ripley.....	S.O.	433	3,484.44	126,969	134	79	2.17	2.7
Rockwood.....	S.O.	P.V.	5,167.69	365,120	180	169	2.39	1.4
Rodney.....	S.O.	731	3,997.54	230,230	274	70	1.22	1.7
Rosseau.....	S.O.	*134	1,957.98	50,002	63	66	2.59	3.9
Russell.....	S.O.	P.V.	3,914.57	164,873	127	108	2.57	2.4
St. Clair Beach.....	S.O.	*235	3,418.56	209,260	115	152	2.48	1.6
St. George.....	S.O.	P.V.	3,742.49	264,216	177	124	1.76	1.4
St. Jacobs.....	S.O.	P.V.	4,570.36	409,890	140	244	2.72	1.1
Scarboro Twp.....	S.O.	.....	158,574.45	13,325,460	6,671	166	1.98	1.2
Seaforth.....	S.O.	1,724	13,762.73	1,054,956	611	144	1.88	1.3
Shelburne.....	S.O.	1,132	6,924.46	390,375	333	98	1.73	1.8
Sioux Lookout.....	N.O.P.	1,897	21,309.35	564,622	586	80	3.03	3.8
Smithville.....	S.O.	P.V.	3,835.78	213,586	193	92	1.66	1.8
Southampton.....	S.O.	*1,598	12,852.67	866,787	622	116	1.72	1.5
Springfield.....	S.O.	409	2,548.39	137,270	133	86	1.60	1.9

* Does not include Summer population.

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1946

VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
1,276.62	58,900	27	182	3.94	2.2	673.81	3	23.5	160
685.86	26,482	19	116	3.01	2.6	253.07	1	15.9	100
1,888.64	104,427	36	242	4.37	1.8	4,864.63	7	149.9	282
5,749.07	308,186	122	211	3.93	1.9	8,621.82	12	415.3	530
7,981.51	532,917	102	435	6.52	1.5	5,973.23	13	324.4	770
5,590.55	370,665	62	498	7.51	1.5	1,076.23	5	58.0	361
35,494.78	2,210,296	467	394	6.33	1.6	93,208.42	87	4,877.1	8,951
5,753.66	289,824	93	260	5.16	2.0	2,231.69	9	150.7	511
3,711.89	127,780	65	163	4.76	2.9	3,154.90	6	156.2	316
1,679.45	82,351	39	176	3.59	2.0	5,480.16	36	168.1	189
987.36	47,692	28	141	2.94	2.1	4,920.36	6	208.9	213
2,385.44	77,592	43	150	4.62	3.1	345.55	2	11.8	231
2,210.32	98,179	69	119	2.67	2.3	710.60	9	49.1	244
3,033.81	119,936	54	185	4.68	2.5	1,562.63	8	61.2	286
6,218.65	324,887	100	271	5.18	1.9	9,601.47	17	615.7	522
4,462.32	216,169	90	200	4.13	2.1	3,130.31	10	130.2	440
2,165.66	93,873	22	356	8.20	2.3	2,710.51	2	104.5	152
3,907.11	162,070	56	241	5.81	2.4	41,560.16	11	1,626.0	437
6,160.72	454,734	72	526	7.13	1.4	7,571.46	12	500.2	827
8,569.21	381,430	129	246	5.54	2.2	4,486.11	7	192.8	698
1,045.36	44,250	27	137	3.23	2.3	.....	.....	.....	277
5,353.63	243,634	86	236	5.19	2.2	3,251.89	13	144.5	504
3,264.97	172,839	63	229	4.32	1.9	.....	.....	.....	280
7,043.39	379,572	122	259	4.81	1.9	4,931.64	11	246.1	1,018
245.33	7,559	7	90	2.92	3.2	379.91	3	12.3	51
1,089.44	44,500	21	177	4.32	2.4	3,148.46	4	117.7	130
1,720.80	112,426	18	520	7.97	1.5	.....	.....	.....	100
1,662.69	60,796	24	211	5.77	2.7	.....	.....	.....	120
4,764.89	317,282	81	326	4.90	1.5	2,435.21	15	166.2	553
9,223.59	537,929	145	309	5.30	1.7	8,001.94	23	502.8	792
2,105.72	60,768	50	101	3.51	3.5	2,449.77	2	84.4	186
1,581.87	88,040	35	210	3.77	1.8	68.08	2	4.0	217
2,758.60	141,249	68	173	3.38	2.0	2,222.94	8	121.9	350
893.99	28,665	10	239	7.45	3.1	461.37	1	17.3	74
2,068.44	76,791	31	206	5.56	2.7	.....	.....	.....	158
2,124.89	111,935	9	1,046	19.67	1.9	265.63	1	10.0	125
2,123.66	124,739	42	247	4.21	1.7	3,776.78	3	156.1	222
2,465.06	130,938	33	331	6.22	1.9	4,859.30	9	256.8	182
33,253.98	2,424,045	488	414	5.68	1.4	44,685.89	55	2,162.4	7,214
10,261.12	551,292	121	380	7.07	1.9	18,062.62	22	843.5	754
4,736.39	244,610	79	258	5.00	1.9	4,375.93	15	261.4	427
14,410.79	288,647	106	227	11.33	5.0	2,029.37	3	47.0	695
3,167.05	139,203	55	211	4.80	2.3	5,039.89	7	272.8	255
6,662.05	282,094	97	242	5.72	2.4	9,350.74	12	386.6	731
848.10	27,575	23	100	3.07	3.1	1,638.63	4	61.3	160

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Stamford Twp.	S.O.	.....	82,353. 17	9,846,434	2,731	300	2.51	0.8
Stayner	S.O.	1,028	7,281. 14	419,758	332	105	1.83	1.7
Stirling	S.O.	1,006	7,857. 15	693,752	293	197	2.23	1.1
Stouffville	S.O.	1,340	8,858. 07	764,620	437	146	1.69	1.2
Streetsville	S.O.	707	6,894. 49	514,160	217	197	2.65	1.3
Sunderland	S.O.	P.V.	3,588. 96	174,081	158	92	1.89	2.1
Sutton	S.O.	*981	10,353. 16	594,110	484	102	1.78	1.7
Tara	S.O.	472	3,312. 20	199,405	172	97	1.60	1.7
Tavistock	S.O.	1,082	9,435. 81	861,168	305	235	2.58	1.1
Teeswater	S.O.	854	4,940. 92	266,488	241	92	1.71	1.9
Thamesford	S.O.	P.V.	5,264. 18	457,000	156	244	2.81	1.2
Thamesville	S.O.	734	4,314. 24	305,728	253	101	1.42	1.4
Thedford	S.O.	598	3,790. 10	205,939	200	86	1.58	1.8
Thornbury	S.O.	786	6,189. 46	282,300	257	92	2.01	2.1
Thorndale	S.O.	P.V.	2,300. 91	116,940	86	113	2.23	2.0
Thornton	S.O.	P.V.	1,378. 95	46,530	69	56	1.66	3.0
Tiibury	S.O.	1,929	8,631. 97	656,120	546	100	1.32	1.3
Toronto Twp.	S.O.	.....	117,844. 57	9,647,541	3,572	225	2.75	1.2
Tottenham	S.O.	455	4,114. 31	216,355	175	103	1.96	1.9
Trafalgar Twp.	S.O.	.....	31,066. 15	1,632,669	622	219	4.16	1.9
Tweed	S.O.	1,250	8,883. 35	491,598	340	120	2.18	1.8
Uxbridge	S.O.	1,426	12,448. 85	772,750	460	140	2.25	1.6
Victoria Harbour	S.O.	*894	4,155. 54	185,250	290	53	1.19	2.2
Wardsville	S.O.	226	1,728. 69	95,131	71	112	2.03	1.8
Warkworth	S.O.	P.V.	2,954. 48	108,425	158	57	1.56	2.7
Waterdown	S.O.	966	6,836. 24	617,320	273	188	2.09	1.1
Waterford	S.O.	1,375	8,085. 48	616,230	436	118	1.55	1.3
Watford	S.O.	938	9,377. 22	631,130	317	166	2.47	1.5
Waubaushene	S.O.	P.V.	4,268. 66	207,370	245	71	1.45	2.1
Wellesley	S.O.	P.V.	3,042. 94	182,560	142	107	1.79	1.7
Wellington	S.O.	*917	7,728. 71	487,610	347	117	1.86	1.6
West Lorne	S.O.	841	4,615. 33	312,630	248	105	1.55	1.5
Westport	S.O.	639	4,626. 83	198,462	163	101	2.37	2.3
Wheatley	S.O.	711	4,173. 74	264,562	237	93	1.47	1.6
Warton	S.O.	1,682	9,284. 48	543,087	483	94	1.60	1.7
Williamsburg	S.O.	P.V.	2,030. 97	203,730	92	185	1.84	1.0
Winchester	S.O.	959	8,195. 17	648,317	312	173	2.19	1.3
Windsore	S.O.	*118	2,432. 27	75,852	72	88	2.82	3.2
Woodbridge	S.O.	1,128	9,461. 48	880,410	333	220	2.37	1.1
Woodville	S.O.	388	2,669. 99	121,900	124	82	1.79	2.2
Wyoming	S.O.	576	3,034. 03	152,000	179	71	1.41	2.0
York Township	S.O.	.....	532,565. 97	50,309,625	22,975	182	1.93	1.1
Zurich	S.O.	P.V.	4,424. 47	227,760	164	116	2.25	1.9

* Does not include Summer population.

“D”—Concluded

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1945

VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
17,543.61	1,245,598	173	600	8.45	1.4	23,171.12	23	1,483.5	2,927
4,795.61	226,202	116	163	3.45	2.1	2,894.71	17	203.4	465
4,244.70	226,881	91	208	3.89	1.9	1,778.54	12	108.9	396
5,340.05	333,235	92	301	3.84	1.6	2,602.16	8	150.1	537
2,742.49	126,042	52	202	4.39	2.1	3,018.31	6	163.0	275
1,792.59	84,996	42	169	3.56	2.1	510.95	2	17.4	202
4,708.80	305,550	86	296	4.56	1.5	2,060.50	5	82.9	575
1,817.89	95,891	38	210	3.98	1.9	1,682.14	6	67.1	216
4,988.77	244,784	98	208	4.24	2.0	9,650.09	10	431.1	413
3,320.35	161,830	63	214	4.39	2.1	1,595.29	5	60.8	309
1,806.69	99,808	46	181	3.27	1.8	2,572.90	6	109.7	208
3,303.73	212,328	73	242	3.77	1.6	2,300.24	7	118.5	333
2,880.10	144,744	45	268	5.33	2.0	1,497.44	2	55.1	247
3,426.15	120,688	66	152	4.33	2.8	3,012.88	11	150.9	334
757.68	25,114	22	95	2.87	3.0	1,880.73	3	78.8	111
496.39	19,881	14	118	2.95	2.5	245.94	1	5.0	84
8,158.06	541,185	134	337	5.07	1.5	16,592.75	16	995.3	696
28,943.81	2,043,235	242	704	9.97	1.4	33,148.75	50	1,647.0	3,864
1,472.87	55,295	44	105	2.79	2.7	1,722.63	8	63.2	227
2,915.80	78,927	29	227	8.38	3.7	3,728.61	11	147.8	662
5,850.98	216,216	84	214	5.80	2.7	5,530.27	16	213.8	440
5,888.43	213,670	100	178	4.91	2.7	3,827.77	14	203.4	574
1,128.41	58,635	32	153	2.94	1.9	109.02	1	3.0	323
1,402.21	59,206	20	247	5.84	2.4	41.81	1	3.0	92
1,721.81	77,428	37	174	3.88	2.2	96.29	1	5.5	196
1,739.59	131,074	34	321	4.26	1.3	1,721.86	11	114.1	318
3,980.38	304,685	77	330	4.31	1.3	5,232.89	15	305.0	528
4,795.52	243,740	81	251	4.93	2.0	5,023.11	8	200.8	406
954.63	46,040	23	167	3.46	2.1	510.35	3	17.6	271
1,824.11	91,586	48	159	3.17	2.0	1,439.15	7	72.6	197
3,452.10	161,046	75	179	3.84	2.1	3,984.61	12	215.5	434
4,002.12	241,879	62	325	5.38	1.7	8,272.13	9	360.8	319
3,572.46	138,290	52	222	5.73	2.6	.....	.....	.....	215
4,945.01	244,671	76	268	5.42	2.0	3,889.09	9	182.8	322
8,412.99	465,002	115	337	6.10	1.8	8,109.01	19	251.7	617
2,362.50	139,229	34	341	5.79	1.7	295.96	1	25.1	127
5,433.51	323,136	90	299	5.03	1.7	2,175.41	3	105.4	405
675.43	19,781	12	137	4.69	3.4	1,019.30	2	39.4	86
2,583.73	154,996	56	231	3.84	1.7	12,687.61	10	727.3	399
1,130.17	37,355	24	130	3.92	3.0	699.00	2	43.6	150
1,962.36	90,600	46	164	3.56	2.2	1,492.49	3	62.4	228
85,994.08	6,115,133	1,117	456	6.42	1.4	163,135.17	225	8,873.6	24,317
3,721.48	124,584	42	247	7.38	3.0	.....	.....	.....	206

STATEMENT "E"

Cost of Power to Municipalities and Rates to Consumers for Domestic Service—Commercial Light Service—Power Service in Ontario Urban Municipalities Served by The Hydro-Electric Power Commission for the year 1946

In Statement "E" are presented the rate schedules applicable to consumers for domestic service, for commercial light service and for power service in each of the co-operating municipalities receiving service at cost through The Hydro-Electric Power Commission.* The cost per horsepower of the power supplied at wholesale by the Commission to the municipality, an important factor in determining rates to consumers, is also stated.

Cost of Power to Municipalities

The figures in the first column represent the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of horsepower supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the systems, as presented in Section IX, and an explanation of the items making up the cost of power is given in the introduction to that Section.

Rates to Consumers

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall at all times be subject to the approval and control of the Commission"†. In accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to consumers.

At the commencement of its operations, the Commission introduced scientifically-designed rate schedules for each of the three main classes into which electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement.

*Except townships served as parts of rural power districts, for which consult Section IV.

†R.S.O. 1937, Ch. 62, Sec. 89.

Domestic Service: Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking and the operation of all domestic appliances.

During the past few years most of the urban municipal utilities have further simplified the domestic rate structure by abolishing the service charge, and making a suitable adjustment in the first consumption rate. Where the service charge is retained at 33 and 66 cents gross per month the charge of 33 cents per month per service is made when the permanently installed appliance load is under 2,000 watts, and the charge of 66 cents per month when 2,000 watts or more.

Commercial Light Service: Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

Water-Heater Service: For all consumers using continuous electric water heaters, low flat rates are available consisting of a fixed charge per month dependent on the capacity of the heating element and the cost of power to the municipal utility. Such heaters are so connected that the electrical energy they consume is not metered. For new installations the necessary equipment, including heater, thermostat, efficient insulation for water-storage tank, and wiring, is installed by a large number of municipal Hydro utilities, without capital cost to the consumer.† The installation of new water-heating services was suspended during the war.

Power Service: The rate schedules given for power service in Statement "E" are those governing the supply of power at retail by each of the local municipal utilities. The Commission serves direct, certain large power consumers under special contracts, on behalf of the systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually five per cent lower than those stated. In municipalities where load conditions and other circumstances permit, lower rates are available for "restricted power", discounts additional to those listed in the table being applicable.

The service charge relates to the connected load or to the maximum demand, as measured by a 10-minute average peak, where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Under the tabulation of rates for power service there is a column headed "Basis of rate 130 hours' monthly use of demand." This column shows approximately the net annual amount payable for a demand of one horsepower, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.

†In addition, the municipal Hydro utilities supply booster water-heating equipment to furnish extra requirements beyond the capacity of the continuous heater; current for the booster heater is measured and charged for at the regular rates.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1946, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month*	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Acton.....	23.38	.....	60	2.3	1.0	0.83	10
Agincourt.....	23.62	.....	60	3.0	1.0	0.83	10
Ailsa Craig.....	28.18	.....	60	2.5	0.9	0.83	10
Alexandria.....T	30.66	.....	60	3.0	1.0	1.11	10
Alliston.....T	26.79	.....	55	3.5	1.0	1.11	10
Almonte.....	24.80	.....	60	2.5	1.0	0.83	10
Alvinston.....	32.78	.....	60	3.5	1.0	0.83	10
Amherstburg.....T	26.12	.....	60	2.5	0.9	0.83	10
Ancaster Twp.....	24.75	.....	60	3.4	1.0	0.83	10
Apple Hill.....	28.98	.....	60	4.0	1.0	1.39	10
Arkona.....	39.00	.....	60	4.0	1.0	1.11	10
Arnprior.....T	21.52	.....	60	2.8	0.8	0.83	10
Arthur.....	38.99	.....	45	4.5	1.2	1.11	10
Athens.....	32.88	33-66	50	4.5	1.5	1.11	10
Atikokan.....	.....	56	40	3.5	x1.6 0.75	†1.67 ‡2.25	10
Aurora.....T	22.33	.....	60	2.6	1.0	0.83	10
Aylmer.....T	24.21	.....	60	2.2	0.8	0.83	10
Ayr.....	26.05	.....	60	2.7	1.0	1.11	10
Baden.....	23.35	.....	60	2.4	0.9	0.83	10
Bala.....T	.....	33-66	50	3.7	1.2	1.66	10
Barrie.....T	19.88	.....	60	2.4	0.8	0.83	10
Bath.....	39.00	.....	60	4.8	1.5	2.22	10
Beachville.....	23.86	.....	60	2.8	0.9	0.83	10
Beamsville.....	20.88	.....	60	2.2	0.8	0.83	10
Beardmore Townsite..	.....	56	40	3.5	x1.6 0.75	†1.67 ‡2.25	10
Beaverton.....	26.58	.....	60	2.8	1.0	1.11	10
Beeton.....	37.11	.....	45	4.0	1.2	1.39	10
Belle River.....	27.78	.....	60	3.0	0.9	1.11	10
Belleville.....C	18.96	.....	55	1.8	0.6	0.83	10
Blenheim.....T	26.04	.....	60	2.3	0.8	0.83	10
Bloomfield.....	29.95	.....	60	2.5	0.9	0.83	10
Blyth.....	31.51	.....	60	2.9	1.0	1.11	10
Bobcaygeon.....	39.00	.....	60	4.0	1.25	1.11	10
Bolton.....	26.01	.....	60	2.9	1.0	0.83	10
Bothwell.....T	30.79	.....	60	2.2	0.75	0.83	10
Bowmanville.....T	23.35	.....	60	2.8	0.9	0.83	10
Bradford.....	28.69	.....	45	4.2	1.0	1.39	10
Braeside.....	23.21	.....	50	4.0	1.3	0.83	10
Brampton.....T	21.12	.....	60	2.1	0.9	0.83	10
Brantford.....C	20.91	.....	60	1.8	0.8	0.83	10

*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

†2 wire service.

‡3 wire service.

“E”

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.6	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.0	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.6	0.8	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	3.2	0.9	1.11	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5.0	2.3	1.0	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	3.0	0.9	0.83	10	38.00	1.00	4.0	2.6	0.33	.....	.....	10
5.0	2.0	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.9	0.7	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.5	1.0	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	3.5	0.8	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	2.5	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	4.0	1.0	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	4.5	1.0	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	1.6	0.4	1.11	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	1.8	0.4	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.2	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	2.0	0.6	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	3.7	0.8	1.66	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	5.0	1.0	2.22	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.4	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.0	0.8	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.5	1.0	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.5	0.5	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
4.5	1.5	0.3	0.83	10	14.00	1.00	1.1	0.7	0.33	.....	25	10
5.0	1.8	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.3	0.7	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.4	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	5.0	1.0	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.5	0.8	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	1.7	0.3	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.3	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	3.7	1.0	1.39	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	4.0	1.0	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	1.7	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
z5.0	1.5	0.35	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10

x2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.
z Minimum 500 watts.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1946, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
c—City T—Town (pop. 2,000 or more)							
Brantford Twp.....	\$ c. 22.50	cents	60	2.6	0.9	\$ c. 1.11	% 10
Brechin.....	32.33		45	5.5	1.2	1.67	10
Bridgeport.....	24.52		60	3.0	0.9	0.83	10
Brigden.....	32.83		60	3.0	0.9	1.11	10
Brighton.....	22.75		60	3.5	0.9	0.83	10
Brockville..... T	21.63		60	1.8	0.7	0.83	10
Brussels.....	30.09		60	3.2	1.0	1.11	10
Burford.....	23.85		60	2.3	0.8	0.83	10
Burgessville.....	31.45		60	4.0	1.0	1.11	10
Burlington..... T	22.45				Special		
Burlington Beach or Hamilton Beach....			60	3.5	1.1	0.83	10
Caledonia.....	23.36		60	2.0	0.8	0.83	10
Callander.....		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Campbellville.....	36.13		60	2.8	1.0	1.11	10
Cannington.....	25.37		60	3.2	1.0	1.11	10
Capreol..... T			50	3.6	1.0	1.39	10
Cardinal.....	21.89		55	2.5	1.0	1.11	10
Carleton Place..... T	20.79		55	2.5	0.9	0.83	10
Cayuga.....	29.63		60	3.5	1.0	1.39	10
Chatham..... C	22.99		60	2.8	0.8	0.83	10
Chatsworth.....	27.39		50	3.0	1.0	1.39	10
Chesley..... T	22.94		55	2.5	0.8	1.11	10
Chesterville.....	25.48		55	2.3	0.9	0.83	10
Chippawa.....	18.75		60	2.0	0.8	0.83	10
Clifford.....	38.51		55	3.3	1.1	1.11	10
Clinton..... T	25.24		60	2.2	0.7	0.83	10
Cobden.....	33.49		40	2.8	1.0	1.11	10
Cobourg..... T	22.70		60	2.9	1.0	0.83	10
Colborne.....	25.30		60	3.8	1.0	0.83	10
Coldwater.....	24.80	33-66	55	2.5	1.0	1.11	10
Collingwood..... T	21.78		55	2.3	0.9	0.83	10
Comber.....	31.19		60	2.9	0.8	0.83	10
Cookstown.....	25.62		45	4.3	1.0	1.39	10
Cottage Cove Townsite.....		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Cottam.....	29.57		60	3.0	1.0	0.83	10
Courtright.....	34.82		60	3.0	1.1	1.11	10
Creemore.....	26.82		50	3.1	1.0	1.39	10
Dashwood.....	28.60		60	3.5	1.0	0.83	10
Delaware.....	24.54		60	3.4	1.0	0.83	10
Delhi.....	24.88		60	3.2	1.0	0.83	10

* 2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

† 2-wire service.

‡ 3-wire service.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	2.2	0.5	1.11	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	4.8	0.8	1.67	10	34.00	1.00	3.4	2.2	0.33	.....	10	10
5.0	2.7	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.5	0.7	1.11	10	34.00	1.00	3.4	2.2	0.33	.....	10	10
5.0	3.0	0.7	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
4.5	1.6	0.3	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	2.7	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	1.8	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	3.5	0.8	1.11	10	31.00	1.00	2.9	1.9	0.33	.....	10	10
			Special							Special		
5.0	3.2	0.7	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	1.6	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
			†1.67									
5.0	3.5	1.0	2.25	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	2.5	0.8	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	10	10
5.0	2.8	0.9	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	10	10
5.0	3.2	0.8	1.39	10	31.00	1.00	2.9	1.9	0.33	.....	10	10
5.0	2.0	0.8	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	10	10
5.0	2.0	0.7	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	3.0	0.8	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	2.2	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.5	0.9	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	2.0	0.7	1.11	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.0	0.9	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	1.6	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	3.5	1.0	1.11	10	32.00	1.00	3.1	2.0	0.33	.....	10	10
5.0	1.9	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.5	1.0	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	10	10
5.0	2.4	0.8	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	3.0	1.0	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	2.5	1.0	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	10	10
5.0	1.8	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.5	0.6	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	10	10
5.0	3.8	1.0	1.39	10	25.00	1.00	2.0	1.3	0.33	.....	10	10
			†1.67									
5.0	3.5	1.0	2.25	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	2.6	0.8	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.2	1.0	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	10	10
5.0	2.6	0.9	1.39	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	3.0	0.8	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	3.0	0.8	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	2.6	0.8	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	10	10

† 2-wire service.

‡ 3-wire service.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1946, in Urban Municipalities**

Municipality c—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Deseronto.....T	26.44	.....	60	3.9	1.0	0.83	10
Dorchester.....	25.25	.....	60	2.6	1.0	0.83	10
Drayton.....	39.00	.....	55	4.0	1.3	1.11	10
Dresden.....T	27.89	.....	60	2.5	0.8	0.83	10
Drumbo.....	26.90	.....	60	3.5	1.0	1.11	10
Dublin.....	28.54	.....	60	3.5	1.1	1.11	10
Dundalk.....	23.85	.....	60	2.7	1.0	1.11	10
Dundas.....T	20.26	.....	60	2.2	0.8	0.83	10
Dunnville.....T	22.20	.....	60	1.8	0.7	0.83	10
Durham.....T	25.62	.....	55	2.5	1.0	0.83	10
Dutton.....	25.75	.....	60	2.0	0.8	0.83	10
East York Twp.....	20.47	.....	60	2.3	1.0	0.83	10
Elmira.....T	22.22	.....	60	2.6	0.8	0.83	10
Elmvale.....	27.78	.....	60	2.6	1.0	0.83	10
Elmwood.....	29.91	.....	50	3.5	0.9	1.11	10
Elora.....	25.71	.....	60	2.8	1.0	1.11	10
Embro.....	26.86	.....	60	3.3	1.1	0.83	10
Erieau.....	32.27	.....	60	3.7	1.0	1.11	10
Erie Beach.....	38.89	.....	60	4.5	1.2	1.39	10
Erin.....	.....	.....	40	5.0	1.5	1.39	10
Essex.....T	25.83	.....	60	2.3	0.8	0.83	10
Etobicoke Twp.....	21.12	.....	60	2.5	1.0	0.83	10
Exeter.....	25.09	.....	60	2.6	0.9	0.83	10
Fergus.....	23.81	.....	60	2.6	0.9	1.11	10
Finch.....	28.19	.....	45	3.0	1.2	1.39	10
Flesherton.....	26.95	.....	60	2.8	1.0	1.11	10
Fonthill.....	22.44	.....	60	2.8	1.0	0.83	10
Forest.....T	27.45	.....	60	3.0	0.9	0.83	10
Fortst Hill.....	20.03	.....	60	2.5	1.1	0.83	10
Fort William.....C	18.58	.....	60	1.8	0.7	0.83	10
Frankford.....	.....	.....	60	4.5	1.2	0.83	10
Galt.....C	21.10	.....	60	2.5	0.7	0.83	10
Gamebridge.....	.....	.....	45	5.5	1.2	1.67	10
Georgetown.....T	24.60	.....	60	2.5	0.9	0.83	10
Geraldton Townsite..	.....	.....	60	3.7	1.2	1.11	10
Glencoe.....	35.00	.....	60	3.0	0.9	1.11	10
Glen Williams.....	.....	.....	60	2.9	1.0	0.83	10
Goderich.....T	26.98	.....	60	2.7	0.9	0.83	10
Grand Valley.....	31.57	.....	60	2.8	1.0	1.11	10
Granton.....	30.13	.....	60	3.3	1.0	0.83	10

“E”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	3.5	0.9	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	2.1	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.4	0.7	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.0	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	3.0	0.8	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	3.0	0.8	1.11	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5.0	2.3	0.8	1.11	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	1.8	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	1.5	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	2.1	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	1.7	0.3	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.3	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.2	0.8	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	3.0	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.4	0.6	1.11	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.7	0.7	0.83	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	3.5	0.9	1.11	10	38.00	1.00	4.0	2.6	0.33	2.22	.....	10
5.0	4.0	1.0	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	4.0	1.0	1.39	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	1.9	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.1	0.4	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.2	0.4	1.11	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.8	1.0	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.3	0.8	1.11	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	2.3	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	2.5	0.6	0.83	10	29.00	1.00	2.6	1.7	0.33	.....	.....	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	1.6	0.3	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	3.5	1.0	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.1	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	4.8	0.8	1.67	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5.0	2.0	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.6	0.8	1.11	10	31.00	1.00	2.9	1.9	0.33	.....	.....	10
5.0	2.3	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.3	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.4	0.8	1.11	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.6	1.0	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10

† 2-wire service.

‡ 3-wire service.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1946, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
c—City t—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Gravenhurst.....T	20.53	.....	60	1.8	0.7	0.83	10
Grimsby.....T	22.33	.....	60	2.8	1.0	0.83	10
Guelph.....C	21.13	.....	60	1.8	0.8	0.83	10
Hagersville.....	24.12	.....	60	2.3	0.9	0.83	10
Hamilton.....C	19.76	.....	60	2.0	0.7	0.83	10
Hanover.....T	20.65	.....	60	2.4	1.0	0.83	10
Harriston.....T	29.25	.....	55	3.0	1.0	0.83	10
Harrow.....T	27.46	.....	60	3.2	1.0	0.83	10
Hastings.....	26.58	.....	45	4.2	1.0	1.11	10
Havelock.....	29.80	.....	60	2.8	1.0	0.83	10
Hensall.....	30.19	.....	60	3.2	1.0	0.83	10
Hepworth.....	.....	.....	60	4.0	1.2	1.67	10
Hespeler.....T	21.11	.....	60	2.7	0.8	0.83	10
Highgate.....	29.83	.....	60	3.2	0.9	0.83	10
Hislop Townsite.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Holstein.....	39.04	.....	60	3.0	1.0	1.11	10
Hudson Townsite.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Humberstone.....	21.88	.....	60	2.2	0.8	0.83	10
Huntsville.....T	23.64	.....	60	2.0	0.9	0.83	10
Ingersoll.....T	22.11	.....	60	2.3	0.8	0.83	10
Iroquois.....	21.38	.....	60	2.5	1.0	0.83	10
Jarvis.....	29.96	.....	60	2.8	0.9	0.83	10
Kearns Townsite.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Kemptville.....	27.88	.....	55	3.2	1.0	0.83	10
Kincardine.....T	26.69	.....	50	3.1	1.0	1.11	10
King Kirkland Townsite.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Kingston.....C	19.63	.....	50	1.8	0.6	0.83	10
Kingsville.....T	26.96	.....	60	2.6	0.9	0.83	10
Kirkfield.....	39.02	.....	50	5.0	1.2	1.66	10
Kitchener.....C	20.63	.....	60	2.0	0.9	0.83	10
Lakefield.....	22.59	.....	55	2.8	1.0	0.83	10
Lambeth.....	25.89	.....	60	2.6	0.8	0.83	10
Lanark.....	38.02	.....	50	3.8	1.2	0.83	10
Lancaster.....	35.34	.....	60	3.0	1.0	0.83	10
La Salle.....T	27.51	.....	60	3.6	1.1	1.11	10
Leamington.....T	26.94	.....	60	2.0	0.8	0.83	10
Leaside.....T	.....	.....	50	1.8	1.0	0.83	10
Lindsay.....T	24.55	.....	60	2.3	0.8	0.83	10
Listowel.....T	25.62	.....	60	2.3	0.9	0.83	10
London.....C	20.73	.....	60	2.2	0.75	0.83	10
London Twp.....	23.39	.....	60	2.9	1.0	1.11	10
Long Branch.....	21.51	.....	60	2.2	0.8	0.83	10
Lucan.....	24.78	.....	60	2.9	0.9	0.83	10
Lucknow.....	28.69	.....	55	2.7	1.0	1.39	10
Lynden.....	25.22	.....	60	3.0	1.0	0.83	10

* 2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

† 2-wire service.

‡ 3-wire service.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	1.5	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	2.3	0.7	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	1.6	0.3	0.83	10	14.00	1.00	1.1	0.7	0.33	.....	25	10
5.0	1.8	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
25.0	1.5	0.35	0.83	10	14.50	1.00	0.9	0.56	0.25	.....	.....	10
5.0	2.0	0.7	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.6	0.7	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	2.6	0.7	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	3.6	1.0	1.11	10	37.00	1.00	3.8	2.5	0.33	.....	.....	10
5.0	2.3	0.8	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.7	0.9	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.5	1.0	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	2.2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.8	0.7	0.83	10	29.00	1.00	2.6	1.7	0.33	.....	.....	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.5	0.8	†1.11 ‡2.25	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	3.5	1.0	‡2.25	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	1.7	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	1.8	0.7	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	1.8	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	2.0	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	2.3	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.7	1.0	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	2.6	0.8	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	1.5	0.3	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	1.9	0.5	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	4.5	1.0	1.66	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	1.8	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.4	0.8	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.1	0.5	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.3	1.0	0.83	10	38.00	1.00	4.0	2.6	0.33	.....	.....	10
5.0	2.5	1.0	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	3.2	0.9	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	1.7	0.4	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
25.0	1.9	0.35	0.83	10	18.50	1.00	1.5	0.9	0.25	.....	.....	10
5.0	1.9	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	2.0	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	1.7	0.3	0.83	10	14.00	1.00	1.1	0.7	0.33	.....	25	10
5.0	2.5	0.6	1.11	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.4	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.2	0.8	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10

z Minimum 500 watts.

a \$1.00 per kw.

† 2-wire service.

‡ 3-wire service.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1946, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
c—City T—Town (pop. 2,000 or more)							
	\$ c	cents		cents	cents	\$ c.	%
MacTier.....	28.39	.....	50	4.7	1.6	1.66	10
Madoc.....	23.91	.....	60	2.8	1.0	0.83	10
Markdale.....	23.48	.....	60	2.0	1.0	0.83	10
Markham.....	28.41	.....	60	2.8	1.0	0.83	10
Marmora.....	26.13	.....	60	3.6	1.0	0.83	10
Martintown.....	29.10	.....	50	3.0	1.0	1.11	10
Matachewan Townsite	25.07	.....	50	4.5	1.0	1.11	10
Maxville.....	27.49	.....	55	3.1	1.0	0.83	10
Meaford.....T	22.82	.....	60	2.6	1.0	0.83	10
Merlin.....	18.58	.....	60	2.8	0.9	0.83	10
Merritton.....T	20.47	.....	60	2.2	0.9	0.83	10
Midland.....T	26.21	.....	60	2.3	0.8	0.83	10
Mildmay.....	27.49	.....	50	2.8	1.0	1.39	10
Millbrook.....	22.82	.....	60	4.6	1.0	0.83	10
Milton.....T	26.43	.....	60	2.8	0.9	0.83	10
Milverton.....	20.50	.....	60	2.5	1.0	0.83	10
Mimico.....T	23.89	.....	60	2.2	0.9	0.83	10
Mitchell.....T	38.07	.....	60	2.8	1.0	0.83	10
Moorefield.....		.....	60	3.2	1.0	1.39	10
Mooretown Townsite.		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Morrisburg.....	22.64	.....	60	3.0	1.0	0.83	10
Mount Brydges.....	25.95	.....	60	2.4	0.8	0.83	10
Mount Forest.....T	29.35	.....	60	2.8	1.0	0.83	10
Napanee.....T	22.62	.....	60	2.8	0.9	0.83	10
Neustadt.....	28.78	.....	60	3.0	1.0	1.39	10
Newburg.....	32.56	.....	60	5.0	1.5	1.39	10
Newbury.....	23.75	.....	60	4.0	1.0	1.11	10
Newcastle.....	23.89	.....	60	3.0	0.9	1.11	10
New Hamburg.....	22.86	.....	60	2.7	0.9	0.83	10
Newmarket.....T	22.77	.....	60	2.4	0.8	0.83	10
New Toronto.....T	16.41	.....	60	2.2	0.8	0.83	10
Niagara Falls.....C	18.87	.....	60	1.7	0.6	0.83	10
Niagara-on-the-Lake T	22.74	.....	60	2.4	1.0	0.83	10
Nipigon Twp.....		.....	60	2.8	1.0	1.11	10
Nipissing.....		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
North Bay.....C	21.27	.....	60	2.3	0.9	0.83	10
North York Twp.....	24.31	.....	60	2.4	0.9	0.83	10
Norwich.....	23.19	.....	60	2.5	0.8	0.83	10
Norwood.....	27.60	.....	50	3.8	1.0	1.11	10
Oil Springs.....		.....	60	2.6	0.9	1.11	10

* 2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

† 2-wire service.

‡ 3-wire service.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	4.4	1.0	1.66	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	2.5	0.8	0.83	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5.0	1.8	0.8	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.4	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	3.2	0.9	0.83	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	3.0	1.0	1.66	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	3.5	1.0	†1.67	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.8	1.0	†2.25	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	2.2	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	2.3	0.6	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5.0	1.6	0.5	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	1.8	0.7	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	2.4	0.8	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	4.2	1.0	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.3	0.5	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.2	0.7	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	1.9	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.3	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.8	0.9	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	3.5	1.0	†1.67	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.7	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	1.8	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.3	0.8	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	2.4	0.7	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.5	0.8	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	4.5	1.5	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	3.5	0.9	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.5	0.8	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	2.2	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.2	0.7	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	1.6	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	1.5	0.35	0.83	10	14.00	1.00	1.1	0.7	0.33	.....	25	10
5.0	2.0	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.4	0.8	1.11	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	3.5	1.0	†1.67	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	1.8	0.8	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.1	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	3.3	0.8	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	2.4	0.6	1.11	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10

† 2-wire service.

† 3-wire service.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1946, in Urban Municipalities**

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to muni- cipality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Omemece.....	24.51	.....	60	3.3	1.0	0.83	10
Orangeville..... T	26.19	.....	55	2.8	1.0	1.11	10
Orono.....	27.19	.....	60	4.5	1.0	1.11	10
Oshawa..... C	22.55	.....	60	3.0	1.0	0.83	10
Ottawa..... C	15.06	33-66	{ 60 60 }	{ 2.0 1.0 }	0.5	0.83	10
Otterville.....	27.60	.....	60	2.6	0.9	0.83	10
Owen Sound..... C	21.75	.....	60	2.1	0.8	0.83	10
Paisley.....	28.87	.....	50	4.0	1.0	1.39	10
Palmerston..... T	27.96	.....	60	2.6	1.0	1.11	10
Paris..... T	21.31	.....	60	2.2	0.9	0.83	10
Parkhill..... T	32.13	.....	60	3.0	1.0	0.83	10
Penetanguishene..... T	22.03	.....	60	2.4	0.9	0.83	10
Perth..... T	21.75	.....	55	2.8	1.0	0.83	10
Peterborough..... C	19.73	.....	60	2.0	0.9	0.83	10
Petrolia..... T	25.74	.....	60	2.7	0.8	0.83	10
Picton..... T	24.88	.....	60	2.0	0.8	0.83	10
Plattsville.....	30.09	.....	60	3.0	1.0	0.83	10
Point Edward.....	26.38	.....	60	3.0	1.0	0.83	10
Port Arthur..... C	18.52	.....	50	1.7	0.6	0.83	10
Port Carling.....	.....	33-66	45	4.7	1.5	1.66	10
Port Colborne..... T	21.68	.....	60	2.5	0.8	0.83	10
Port Credit.....	21.95	.....	60	2.1	0.9	0.83	10
Port Dalhousie.....	21.35	.....	60	2.4	1.0	0.83	10
Port Dover.....	26.95	.....	60	2.2	0.8	0.83	10
Port Elgin.....	28.65	33-66	40	2.5	1.2	1.11	10
Port Hope..... T	22.96	.....	60	2.2	0.9	0.83	10
Port McNicoll.....	22.66	.....	60	3.3	1.0	0.83	10
Port Perry.....	28.26	.....	50	4.0	1.2	1.11	10
Port Rowan.....	31.79	.....	60	3.0	1.0	0.83	10
Port Stanley.....	26.98	.....	60	2.6	0.9	0.83	10
Powassan..... T	.....	56	40	3.5	{ *1.6 0.75 }	{ †1.67 ‡2.25 }	10
Prescott..... T	21.71	.....	60	2.5	1.1	0.83	10
Preston..... T	20.86	.....	60	2.5	0.8	0.83	10
Priceville.....	38.89	.....	60	3.5	1.0	1.39	10
Princeton.....	31.03	.....	60	3.0	1.0	1.39	10
Queenston.....	19.57	.....	60	2.3	0.9	0.83	10
Ramore-Matheson.....	.....	56	40	3.5	{ *1.6 0.75 }	{ †1.67 ‡2.25 }	10
Red Lake Townsite.....	.....	56	40	3.5	{ *1.6 0.75 }	{ †1.67 ‡2.25 }	10
Renfrew..... T	23.89	.....	45	3.5	1.0	0.33	10
Richmond.....	30.59	.....	40	4.3	1.2	1.67	10

* 2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

† 2-wire service.

‡ 3-wire service.

“E”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	2.8	0.8	0.83	10	30.00	1.00	2.8	1.8	0.33			10
5.0	2.0	0.8	1.11	10	18.00	1.00	1.9	1.2	0.33		25	10
5.0	4.0	0.8	1.11	10	35.00	1.00	3.5	2.3	0.33			10
5.0	2.5	0.7	0.83	10	21.00	1.00	1.8	1.1	0.33		10	10
5.0	2.1	0.5	0.83	10	18.00	1.00	1.8	1.2	0.15		15 & 10	10
5.0	2.2	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33		10	10
5.0	1.8	0.7	0.83	10	17.00	1.00	1.7	1.1	0.33		25	10
5.0	3.5	0.8	1.39	10	35.00	1.00	3.5	2.3	0.33			10
5.0	2.2	0.8	1.11	10	21.00	1.00	1.8	1.1	0.33		10	10
5.0	1.7	0.4	0.83	10	15.00	1.00	1.3	0.8	0.33		25	10
5.0	2.5	0.8	0.83	10	29.00	1.00	2.6	1.7	0.33			10
5.0	2.1	0.7	0.83	10	20.00	1.00	1.6	1.0	0.33		10	10
5.0	2.0	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33		25	10
5.0	1.8	0.7	0.83	10	16.00	1.00	1.5	0.9	0.33		25	10
5.0	2.1	0.5	0.83	10	23.00	1.00	2.1	1.4	0.33		10	10
5.0	1.7	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5.0	2.5	0.8	0.83	10	26.00	1.00	2.2	1.4	0.33	2.00		10
5.0	2.4	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33		10	10
4.5	1.5	0.3	0.83	10	15.00	1.00	1.3	0.8	0.33		25	10
5.0	4.5	0.8	1.66	10	32.00	1.00	3.1	2.0	0.33			10
5.0	2.2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5.0	1.8	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33		25	10
5.0	1.9	0.6	0.83	10	16.00	1.00	1.5	0.9	0.33		25	10
5.0	1.7	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5.0	2.5	0.8	1.11	10	26.00	1.00	2.2	1.4	0.33			10
5.0	1.9	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5.0	2.8	0.8	0.83	10	30.00	1.00	2.8	1.8	0.33			10
5.0	3.2	1.0	1.11	10	28.00	1.00	2.5	1.6	0.33			10
5.0	2.5	0.8	0.83	10	28.00	1.00	2.5	1.6	0.33			10
5.0	2.2	0.5	0.83	10	24.00	1.00	2.3	1.5	0.33			10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.00	2.8	1.8	0.33			10
5.0	2.2	1.0	0.83	10	19.00	1.00	2.0	1.4	0.33		25	10
5.0	2.0	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33		25	10
5.0	3.0	1.0	1.39	10	30.00	1.00	2.8	1.8	0.33			10
5.0	2.7	0.8	1.39	10	24.00	1.00	2.3	1.5	0.33		10	10
5.0	1.8	0.7	0.83	10	22.00	1.00	1.9	1.3	0.33		10	10
5.0	3.5	1.0	†1.67 ‡2.25 †1.67	10	30.00	1.00	2.8	1.8	0.33			10
5.0	3.5	1.0	‡2.25	10	30.00	1.00	2.8	1.8	0.33			10
5.0	2.0	0.5	0.50	10	.....	1.00	2.1	1.4	0.33			10
5.0	4.0	1.0	1.67	10	35.00	1.00	3.5	2.3	0.33			10

† 2-wire service. ‡ 3-wire service.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1946, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
c—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Richmond Hill.....	22.34	.....	60	2.2	0.8	0.83	10
Ridgetown.....T	26.16	.....	60	2.0	0.8	0.83	10
Ripley.....	34.82	.....	55	4.8	1.0	1.67	10
Riverside.....T	26.15	.....	60	2.8	0.9	0.83	10
Rockwood.....	25.60	.....	60	2.8	1.0	0.83	10
Rodney.....	31.89	.....	60	2.4	0.8	0.83	10
Rosseau.....	39.04	.....	60	4.0	2.0	2.22	10
Russell.....	30.45	.....	55	4.6	1.2	1.39	10
St. Catharines.....C	18.71	.....	60	1.8	0.8	0.83	10
St. Clair Beach.....	29.54	.....	60	3.5	1.0	1.11	10
St. George.....	27.84	.....	60	2.5	0.9	0.83	10
St. Jacobs.....	22.65	.....	60	2.4	0.9	0.83	10
St. Marys.....T	24.96	.....	60	3.0	1.0	0.83	10
St. Thomas.....C	21.79	.....	60	2.4	0.8	0.83	10
Sarnia.....C	23.81	.....	60	2.5	0.8	0.83	10
Scarborough Twp.....	21.92	.....	60	2.3	0.9	0.83	10
Seaforth.....T	24.20	.....	60	2.6	1.0	0.83	10
Shelburne.....	26.51	.....	60	2.7	1.0	1.11	10
Simcoe.....T	22.26	.....	60	2.0	0.7	0.83	10
Sioux Lookout.....T	.....	.....	60	4.5	1.5	2.00	10
Smiths Falls.....T	19.97	.....	60	2.5	0.8	0.83	10
Smithville.....	24.26	.....	60	3.0	0.9	0.83	10
Southampton.....T	27.63	.....	40	3.2	1.0	1.11	10
Springfield.....	29.72	.....	60	3.4	0.9	0.83	10
Stamford Twp.....	16.53	.....	60	2.3	0.8	0.83	10
Stayner.....T	24.11	.....	55	3.0	1.0	0.83	10
Stirling.....	19.53	.....	60	2.3	0.9	0.83	10
Stoney Creek.....	.....	.....	60	3.5	1.1	0.83	10
Stouffville.....	25.32	.....	60	2.1	0.8	0.83	10
Stratford.....C	22.34	.....	60	2.6	0.9	0.83	10
Strathroy.....T	22.74	.....	60	2.6	0.8	0.83	10
Streetsville.....	23.74	.....	60	2.8	1.0	0.83	10
Sudbury.....C	.....	.....	60	2.4	1.0	0.83	10
Sunderland.....	31.16	.....	60	3.5	1.0	1.11	10
Sutton.....	30.85	.....	60	2.7	1.0	1.11	10
Swansea.....	23.66	.....	60	2.1	0.9	0.83	10
Tara.....	27.48	.....	55	2.6	1.0	1.11	10
Tavistock.....	25.10	.....	60	2.5	0.9	0.83	10
Tecumseh.....T	27.65	.....	60	3.0	0.9	0.83	10
Teeswater.....	29.69	.....	60	3.0	1.0	1.11	10
Thamesford.....	25.91	.....	60	2.7	0.9	0.83	10
Thamesville.....	26.65	.....	60	2.1	0.8	0.83	10
Theford.....	37.49	.....	60	3.6	1.0	0.83	10
Thornbury.....	33.72	.....	60	3.5	1.0	0.83	10
Thorndale.....	31.19	.....	60	3.8	1.0	0.83	10

"E"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	1.8	0.4	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	4.3	0.8	1.67	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	2.3	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.3	0.7	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	10	10
5.0	2.1	0.5	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	4.0	2.0	2.22	10	40.00	1.00	4.3	2.8	0.33	.....	10	10
5.0	4.3	1.0	1.39	10	50.00	1.00	5.7	3.8	0.33	.....	10	10
25.0	1.5	1/2	a0.83	10	14.00	1.00	1.1	0.7	0.33	.....	25	10
5.0	3.2	0.9	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	2.0	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.5	0.7	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	1.7	0.3	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	1.9	0.4	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	1.8	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.1	0.7	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.3	0.9	1.11	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	4.5	1.5	b1.00	10	40.00	1.00	4.3	2.8	0.33	.....	10	10
5.0	2.0	0.3	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	2.5	0.7	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	10	10
5.0	2.8	0.8	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	10	10
5.0	2.9	0.8	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	2.0	0.5	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	2.3	0.9	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	1.8	0.8	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	3.2	0.7	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	1.8	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.0	0.4	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.0	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.3	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.4	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.0	0.8	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	10	10
5.0	2.4	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	10	10
5.0	1.7	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.2	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5.0	2.0	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.5	0.5	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	2.6	0.8	1.11	10	34.00	1.00	3.4	2.2	0.33	.....	10	10
5.0	2.1	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	1.7	0.4	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	3.2	0.7	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	10	10
5.0	3.0	0.8	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	3.2	0.9	0.83	10	32.00	1.00	3.1	2.0	0.33	.....	10	10

a \$0.83 or \$0.83 per kw.

b Per 100 watts—Min. \$2.00 Max. \$5.00.

z Minimum 500 watts.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1946, in Urban Municipalities

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Thornton.....	31.45	.....	60	3.8	1.0	1.39	10
Thorold.....T	19.65	.....	60	1.8	0.7	0.83	10
Tilbury.....T	26.07	.....	60	2.0	0.75	0.83	10
Tillsonburg.....T	23.08	.....	60	2.2	0.75	0.83	10
Toronto.....C	19.98	.....	50	1.8	1.0	0.83	10
Toronto Twp.....	22.19	.....	60	2.7	1.0	1.11	10
Tottenham.....	38.28	.....	50	3.5	1.0	1.39	10
Trafalgar Twp.....	24.43	a 28	60	3.5	1.5	*0.83	10
Trenton.....T	18.49	.....	60	1.8	0.6	0.83	10
Tweed.....	31.27	.....	50	3.8	1.0	0.83	10
Uxbridge.....T	28.12	.....	60	3.1	1.0	1.11	10
Victoria Harbour....	26.90	.....	60	2.4	0.9	1.11	10
Walkerton.....T	21.27	.....	50	3.2	1.1	1.11	10
Wallaceburg.....T	24.80	.....	60	2.6	0.8	0.83	10
Wardsville.....	33.79	.....	60	3.6	0.9	1.11	10
Warkworth.....	31.53	.....	50	3.5	1.2	1.11	10
Waterdown.....	22.97	.....	60	2.2	0.8	0.83	10
Waterford.....	23.05	.....	60	2.1	0.8	0.83	10
Waterloo.....T	20.80	.....	60	1.8	0.7	0.83	10
Watford.....	27.92	.....	60	3.0	1.0	0.83	10
Waubashene.....	22.53	.....	55	3.0	1.0	1.11	10
Welland.....C	19.03	.....	60	1.7	0.6	0.83	10
Wellesley.....	26.90	.....	60	2.8	1.0	0.83	10
Wellington.....	24.28	.....	60	2.7	1.0	0.83	10
West Lorne.....	27.80	.....	60	2.4	0.8	0.83	10
Weston.....T	20.27	.....	60	2.0	0.8	0.83	10
Westport.....	36.28	.....	50	4.0	1.0	1.94	10
Wheatley.....	33.87	.....	60	2.5	0.8	0.83	10
Whitby.....T	22.03	.....	60	2.5	0.9	0.83	10
Wiarton.....T	30.36	.....	50	2.8	0.9	1.11	10
Williamsburg.....	23.25	.....	60	2.0	0.8	0.83	10
Winchester.....	23.93	.....	60	2.3	1.0	0.83	10
Windermere.....	38.97	.....	60	4.0	1.5	2.22	10
Windsor.....C	23.33	.....	60	2.6	0.7	0.83	10
Wingham.....T	26.86	.....	50	3.2	1.1	1.11	10
Woodbridge.....	22.75	.....	60	2.4	0.8	0.83	10
Woodstock.....C	21.27	.....	60	2.3	0.75	0.83	10
Woodville.....	30.70	.....	50	3.8	1.0	1.11	10
Wyoming.....	29.49	.....	60	3.0	0.9	0.83	10
York Twp.....	19.92	.....	60	2.0	0.8	0.83	10
Zurich.....	32.73	.....	60	3.6	1.0	0.83	10

* Under 10 kw, 83 cents; over 10 kw \$2.22 in former Area No. 1. Under 10 kw, \$1.11; over 10 kw \$2.22 in former Area No. 2. a Service charge in former Area No. 2.

“E”—Concluded

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	3.3	1.0	1.39	10	30.00	1.00	2.8	1.8	0.33			10
5.0	1.3	0.35	0.83	10	14.00	1.00	1.1	0.7	0.33		25	10
5.0	1.6	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33		25	10
5.0	1.7	0.4	0.83	10	17.00	1.00	1.7	1.1	0.33		25	10
†5.0	1.9	0.35	0.83	10	18.50	†1.00 d. D.C.	1.5	0.9	0.25			10
							3.2	1.2	0.6			
5.0	2.2	0.6	1.11	10	20.00	1.00	1.6	1.0	0.33		10	10
5.0	3.0	1.0	1.39	10	30.00	1.00	2.8	1.8	0.33			10
5.0	2.8	0.7	0.83	10	26.00	1.00	2.2	1.4	0.33			10
5.0	1.6	0.3	0.83	10	17.00	1.00	1.7	1.1	0.33		25	10
5.0	3.3	1.0	0.83	10	29.00	1.00	2.6	1.7	0.33			10
5.0	2.7	0.8	1.11	10	26.00	1.00	2.2	1.4	0.33			10
5.0	2.0	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33			10
5.0	2.4	0.9	1.11	10	26.00	1.00	2.2	1.4	0.33			10
5.0	2.0	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33		25	10
5.0	3.2	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33			10
5.0	3.0	1.0	1.11	10	32.00	1.00	3.1	2.0	0.33			10
5.0	1.8	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33		25	10
5.0	1.6	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33		25	10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.7	1.1	0.33		25	10
5.0	2.6	0.8	0.83	10	26.00	1.00	2.2	1.4	0.33			10
5.0	2.2	1.0	1.11	10	33.00	1.00	3.2	2.1	0.33			10
5.0	1.5	0.3	0.83	10	14.00	1.00	1.1	0.7	0.33		25	10
5.0	2.4	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33		10	10
5.0	2.3	0.8	0.83	10	27.00	1.00	2.3	1.5	0.33			10
5.0	2.1	0.5	0.83	10	24.00	1.00	2.3	1.5	0.33		10	10
5.0	1.5	0.4	0.83	10	15.00	1.00	1.3	0.8	0.33		25	10
5.0	3.5	1.0	1.94	10	45.00	1.00	4.9	3.3	0.33			10
5.0	2.4	0.5	0.83	10	25.00	1.00	2.0	1.3	0.33			10
5.0	2.0	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33		10	10
5.0	2.3	0.8	1.11	10	33.00	1.00	3.2	2.1	0.33			10
5.0	2.0	0.8	0.83	10	32.00	1.00	3.1	2.0	0.33			10
5.0	1.8	0.8	0.83	10	22.00	1.00	1.9	1.3	0.33		10	10
5.0	4.0	1.5	2.22	10	40.00	1.00	4.3	2.8	0.33			10
5.0	2.1	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33		25	10
5.0	2.6	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33			10
5.0	2.0	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33		25	10
5.0	1.7	0.4	0.83	10	15.00	1.00	1.3	0.8	0.33		25	10
5.0	2.8	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33			10
5.0	2.5	0.6	0.83	10	30.00	1.00	2.8	1.8	0.33			10
5.0	1.8	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33		25	10
5.0	3.1	0.8	0.83	10	30.00	1.00	2.8	1.8	0.33			10

† Minimum 500 watts. † \$1.00 per kw per month.
d D.C.—Service charge \$1.50 per kw per month for first 7½ kw plus \$1.05 per kw for all additional demand.

APPENDIX I

ACTS

CHAPTER 73

An Act to amend The Power Commission Act.

Assented to March 27th, 1946.

Session Prorogued April 5th, 1946.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1.—(1) Section 3 of *The Power Commission Act* is amended by inserting after the word “chairman” in the second line the words “and may appoint another member of the Commission to be vice-chairman”, so that subsection 1 of the said section shall now read as follows:

Rev. Stat.,
c. 62, s. 3,
amended.

(1) The Lieutenant-Governor in Council may appoint one of the members of the Commission to be chairman and may appoint another member of the Commission to be vice-chairman of the Commission, and two members shall form a quorum.

Chairman,
vice-
chairman,
quorum.

(2) The said section 3 is further amended by adding thereto the following subsection:

Rev. Stat.,
c. 62, s. 3,
amended.

(2) In case of the absence or illness of the chairman or of there being a vacancy in the office of chairman, the vice-chairman shall act as and have all the powers of the chairman.

Powers of
vice-
chairman.

2.—(1) Subsection 4 of section 6 of *The Power Commission Act* is repealed and the following substituted therefor:

Rev. Stat.,
c. 62, s. 6,
subs. 4,
re-enacted

(4) Without the consent of the Attorney-General no action of any kind whatsoever shall be brought against the Commission, and without the consent of the Attorney-General no action of any kind whatsoever shall be

No action
against
Commission
without
consent of
Attorney-
General.

brought against any member of the Commission for anything done or omitted by him in the exercise of his office.

Rev. Stat.,
c. 62, s. 6
subss. 6, 7,
8, 9, re-
pealed.

(2) Subsections 6, 7, 8 and 9 of the said section 6 are repealed.

Rev. Stat.,
c. 62, s. 7,
subs. 1, cl. c,
subcl. iii,
re-enacted.

3.—(1) Subclause iii of clause *c* of subsection 1 of section 7 of *The Power Commission Act* is repealed and the following substituted therefor:

(iii) the amount billed against each municipality at interim rates on account of the cost of power supplied in the fiscal year, and the balance credited or charged to each municipality in respect of the annual adjustment of the cost of power.

Rev. Stat.,
c. 62, s. 7,
subs. 1,
cl. f,
re-enacted.
Indebted-
ness to
Commission.

(2) Clause *f* of subsection 1 of the said section 7 is repealed and the following substituted therefor:

(f) a statement summarizing the amount of the indebtedness due or owing by municipal or other corporations and persons as at the 31st day of October last preceding in respect of,

(i) construction of works, sale of electrical equipment, apparatus or supplies and services rendered,

(ii) power bills, and

(iii) other indebtedness, if any,

and such statement shall also indicate the total amount of debts that are three months or more overdue.

Rev. Stat.,
c. 62, s. 9,
re-enacted.

4. Section 9 of *The Power Commission Act* is repealed and the following substituted therefor:

Application
of income
of Com-
mission.

9. The income of the Commission shall be applied by the Commission,—

(a) to meet the necessary operating expenses;

(b) to the preservation, improvement, supervision, renewal, repair, maintenance and insurance of its works;

(c) to the payment of the remuneration and expenses of the commissioners and the officers and others employed by the Commission;

(d) for the operations of the Commission under sections 43 and 56 and to meet obligations, charges and expenses arising from time to time in the course of such operations;

(e) to meet interest expense and expenses of debt service and interest credited on the balances remaining from time to time to the credit of reserve accounts which are established under the authority of this Act;

- (f) to provide reserves authorized by sections 11, 12 and 14; and
- (g) to such other purposes as may be authorized or required by this Act.

5. Section 11 of *The Power Commission Act* is repealed and the following substituted therefor: Rev. Stat.,
c. 62, s. 11,
re-enacted.

11.—(1) The Commission may establish and maintain reserve accounts for the following purposes,— Reserve
accounts
for,—

- (a) to provide for the renewal, reconstruction and repair of works constructed or operated by the Commission; renewals;
- (b) to meet any expenditures or costs caused by or arising from injury to, or destruction, obsolescence or loss of use of any works or other property of the Commission and to meet other contingencies arising in the operations of the Commission and to provide for such part of the cost of properties to be acquired or which have been acquired as is not allocated to specific works; and contin-
gencies;
- (c) to provide a reserve as insurance against loss or damage to any property of the Commission or loss or damage to the persons or property of others caused by or arising from the works or operations of the Commission, insurance.

and may place to the credit of such reserve accounts and expend, use, apply, utilize and appropriate therefrom for the purposes of this section such amounts as may in the opinion of the Commission be sufficient for the purposes of this section.

- (2) The Commission may place to the credit of such reserve accounts interest at such rates as the Commission shall deem equitable and just upon the balances remaining from time to time to the credit of such reserve accounts. Interest.

6. Section 13 of *The Power Commission Act* as amended by section 27 of *The Statute Law Amendment Act, 1942*, and section 1 of *The Power Commission Amendment Act, 1943*, is repealed and the following substituted therefor: Rev. Stat.,
c. 62, s. 13,
re-enacted.

- 13. The Commission may, in its discretion, invest any funds not required in carrying out the objects of the Commission in the debentures or other securities of the Dominion of Canada or of the Province of Ontario, or in securities guaranteed as to principal and interest by either of them. Investment
of funds in
Government
securities.

Rev. Stat.,
c. 62, s. 15,
re-enacted.

7. Section 15 of *The Power Commission Act* is repealed and the following substituted therefor:

Application
of funds
set apart as
sinking fund.

15. All funds set apart by the Commission as a sinking fund under the provisions of section 14 shall be used or employed,—

- (a) towards repayment of advances made by the Province of Ontario to the Commission as provided in section 37*a* and towards the retirement of other indebtedness incurred or assumed by the Commission;
- (b) to restore reserves or other funds of the Commission utilized for the payment of the cost of works; and
- (c) to purchase and hold for sinking fund purposes securities in which the Commission is authorized to invest under section 13.

Rev. Stat.,
c. 62, s. 21,
subs. 2,
cls. a, b,
re-enacted.

8. Clauses *a* and *b* of subsection 2 of section 21 of *The Power Commission Act* are repealed and the following substituted therefor:

To acquire
lands,
waters,
powers and
works.

(a) acquire by purchase, lease or otherwise, land, waters, water privileges, water powers, buildings and works used for, or adapted or useful for, or capable of being used or made useful for generating, transforming, transmitting, distributing or selling electric or other power or energy; enter upon, take possession of, appropriate, acquire and use any such land, waters, water privileges, water powers, buildings and works without the consent of the owner thereof, or of any person in any manner entitled to any right, title, interest, claim or demand thereto or therein; and have and hold them however acquired or obtained, and develop, utilize, use, maintain, operate and improve them for any of the purposes of this Act;

To acquire
assets and
undertaking
of com-
panies.

(b) acquire by purchase the whole or any part of the property, assets and undertaking of Dominion Power and Transmission Company Limited or of any other corporation engaged in the production or sale of electric or other power or energy, including shares held or owned by the Company or other corporation in any other company or companies of any kind or nature whatsoever, and to acquire the whole or any part of the properties, assets and undertakings of such other company or companies and to hold, develop, utilize, use, maintain, operate and improve any property or properties so acquired.

9. *The Power Commission Act* is amended by adding thereto the following section: Rev. Stat., c. 62, amended.

37a.—(1) The advances received by the Commission under the authority of sections 35, 36 and 37 shall be repayable according to Schedule A to this Act. Repayment of advances.

(2) Notwithstanding anything in this Act the Commission may in addition to the repayments provided for under subsection 1 make further repayments on account of the advances by the Province to the Commission from time to time out of funds in its hands. Further repayment.

10. Subsection 2 of section 47 of *The Power Commission Act* is amended by inserting after the figures "61" in the tenth line the words "and an amount to be determined by the Commission to be provided for the purposes of section 11", so that the said subsection shall now read as follows: Rev. Stat., c. 62, s. 47, subs. 2, amended.

(2) His Majesty the King may enter into an agreement or agreements with the Commission, relating to any or all of the works mentioned in subsection 1, providing for payment to the Commission out of the Consolidated Revenue Fund of the Province the amounts from time to time by which the revenues which have been or may hereafter be derived from such works are or may be insufficient to meet in full the annual costs and charges in connection therewith as determined by the Commission, including the items set forth in clauses *a*, *b* and *c* of section 61 and an amount to be determined by the Commission to be provided for the purposes of section 11, and such agreement or agreements when executed by the President of the Executive Council representing His Majesty and the Commission shall be valid and binding on the Province and the Commission respectively. Agreements between Crown and the Commission as to undertakings in territorial districts.

11. Clauses *a*, *b*, *c* and *d* of section 61 of *The Power Commission Act* are repealed and the following substituted therefor: Rev. Stat., c. 62, s. 61, cls. a, b, c, d, re-enacted.

(a) the cost of operating, maintaining, renewing and insuring the works and the cost of administration of the Commission;

(b) interest and expenses of debt service and interest credited on the balances remaining from time to time to the credit of reserve accounts established under the authority of this Act;

(c) an annual sum sufficient to form in forty years, with interest at four per centum per annum, a sinking fund for the repayment of the advances made by the Province of Ontario under this Act for the cost of the works, for the repayment of any other indebtedness incurred or assumed by the Commission in respect of the cost of

the works, and for the restoration of any reserve or other funds of the Commission utilized for the payment of the cost of the works; and

- (d) an amount to be determined by the Commission for the purposes of sections 11 and 12.

Rev. Stat.,
c. 32, s. 71a
(1939,
c. 35, s. 3),
amended.

12. Section 71a of *The Power Commission Act* as enacted by section 3 of *The Power Commission Amendment Act, 1939* is amended by adding at the end thereof the words "and may upon such terms as it deems proper, sell, lease or otherwise dispose of any lands and works acquired or held for the purposes of this Part", so that the said section shall now read as follows:

Powers
given to
Commission.

71a. For the purposes of this Part, the Commission may exercise any of the powers which the Commission may exercise or be authorized to exercise under Part I and may upon such terms as it deems proper, sell, lease or otherwise dispose of any lands and works acquired or held for the purposes of this Part.

Rev. Stat.,
c. 62, s. 90,
re-enacted.

13. Section 90 of *The Power Commission Act* is repealed and the following substituted therefor:

System of
bookkeeping.

90.—(1) The Commission may prescribe for any municipal corporation or municipal commission receiving electrical power or energy from the Commission for distribution a system of bookkeeping and keeping accounts of the assets, liabilities, revenues and expenditures in respect of the production, development, distribution or sale of electrical power or energy or the dealing in electrical fittings, fixtures, appliances, machines or equipment.

Returns and
statements.

(2) The Commission may require from any municipal corporation or municipal commission which owns, operates, controls or manages an electrical public utility receiving electrical power or energy from the Commission for distribution such returns and statements as the Commission may deem proper, and the Commission shall have access to and the right to inspect the books, records, minutes, statements and returns relating to such electrical public utility and to extract therefrom such information as in the opinion of the Commission may be useful for publication and to embody any of the information in the reports of the Commission.

Rev. Stat.,
c. 62,
amended.

14. *The Power Commission Act* is amended by adding thereto the following section:

Utilization
of funds.

95a. A municipal corporation or municipal commission receiving electrical power or energy from the Commission for distribution may, subject to the approval of the Commission, utilize funds in its hands derived from or pertaining to the electric utility for which such power or energy is received and not required for current

operating expenses or current working capital thereof in the following manner and not otherwise,—

- (a) in the reduction of any indebtedness incurred with respect to the construction and equipment of works for the production, development, distribution or sale of electrical power or energy; or Reduction of indebtedness.
- (b) in purchasing or otherwise acquiring a site and erecting thereon buildings for the occupation and use of the municipal commission as offices and for other business purposes, subject to the approval by the Commission of the site and cost of the plans of any such building, and, subject to such approval, any such office building may be larger than is required for the immediate use of the municipal commission, and any part of such building not immediately required for the use of the municipal commission may be leased by it to the corporation or to any other municipal commission for the purpose of any public utility in the municipality; or Erection of buildings.
- (c) in the renewal of such buildings; or Renewal of buildings.
- (d) in the extension of works for the production, development, distribution or sale of electrical power or energy; or Extension of works.
- (e) in the purchase of such marketable securities and on such terms as the Commission may approve. Purchase of marketable securities.

15. Subsection 1 of section 96 of *The Power Commission Act* as re-enacted by subsection 1 of section 6 of *The Power Commission Amendment Act, 1944*, and subsection 3 of the said section 96 are repealed and the following substituted therefor: Rev. Stat., c. 62, s. 96, subs. 1 (1944, c. 46, s. 6, subs. 1), subs. 3, re-enacted.

- (1) Whenever it appears from the accounts of a municipal corporation or municipal commission receiving electrical power or energy from the Commission for distribution that there is a surplus of revenue derived from or pertaining to an electric utility over the expenses thereof after providing for any payments required to be made on account of principal or interest of any debentures issued for the construction and equipment of works for the production, development, distribution or sale of electrical power or energy, and for such depreciation and other reserves as the Commission may deem proper, such surplus shall be applied and disposed of in such manner as the Commission may by general regulation or special order direct,— When accounts of a corporation show a surplus.

- (a) in repaying to persons to whom electrical power or energy is being supplied by such municipal corporation or municipal commission moneys paid by them for electrical power or energy so supplied, such repayment being made either directly or by a In repayment to customers.

credit on or reduction in bills for electrical power or energy; or

To general purposes of municipal corporation.

- (b) to the extent to which such surplus is derived from the supply of electrical power or energy for the lighting of the streets of the municipality or for the operation of any street railway or electric railway or any public utility of the corporation other than an electric utility by payment over of such surplus or of such portion thereof as the Commission may deem proper, to the treasurer of the municipality to be applied to the general purpose of the corporation.

.

Liability for misapplication of funds.

- (3) Any member of the council of a municipal corporation and any member of a municipal commission where such municipal corporation or municipal commission is receiving electrical power or energy from the Commission for distribution by an electric utility, who is in any manner a party to any disposition or application of a surplus referred to in subsection 1 other than that directed by the Commission, or to any disposition, use, application or dealing with funds pertaining to such electric utility in any manner prohibited by this Act or any other Act shall forfeit his office and proceedings may thereupon be taken against him as provided in *The Municipal Act* in the case of a member of a municipal council who has become disqualified, and the Commission may take the same proceedings in respect thereof as might be taken by a ratepayer of such municipality.

Rev. Stat., c. 266.

Rev. Stat., c. 62, s. 104, subs. 2, re-enacted.

Municipal commission,—how composed in city of 60,000 or over.

16.—(1) Subsection 2 of section 104 of *The Power Commission Act* is repealed and the following substituted therefor:

- (2) Notwithstanding anything contained in *An Act respecting the City of Toronto*, passed in the first year of the reign of His Late Majesty King George the Fifth, chaptered 119, in a city having a population of sixty thousand or over according to the last enumeration of the assessor, the corporation of which has entered into a contract with the Commission under this Act, the commission to be established for the control and management of the construction, operation and maintenance of all works undertaken by the corporation for the distribution and supply of electrical power or energy shall consist of three members, one of whom shall be the mayor of the city, one of whom shall be appointed by the municipal council of the city for two years and until his successor is appointed, and the third of whom shall be appointed by the Commission for two years and shall be eligible for re-appointment from time to time.

(2) Subsection 1 shall have effect from the 1st day of June, 1944, and all members of any such commission appointed by the Commission shall be deemed to have been appointed on the said 1st day of June, 1944, so far as their term of office is concerned.

Subs. 1 re-
troactive.

17. Section 105 of *The Power Commission Act* as amended by subsection 3 of section 19 of *The Statute Law Amendment Act, 1938*, is repealed.

Rev. Stat.,
c. 62, s. 105,
repealed.

18. Schedule A to *The Power Commission Act* is repealed and the following substituted therefor:

Rev. Stat.,
c. 62,
Schedule A,
re-enacted.

Schedule A

During year ending 31st October, 1946	\$2,879,705.62
1947	3,207,339.80
1948	14,895,628.15
1949	2,735,982.87
1950	2,779,563.88
1951	1,726,950.87
1952	10,483,973.05
1953	1,806,559.11
1954	1,849,376.08
1955	1,893,327.08
1956	1,939,621.95
1957	1,796,447.07
1958	1,610,130.67
1959	14,745,686.58
1960	1,341,659.01
1961	15,492,724.75
1962	1,457,165.95
1963	1,519,463.70
1964	1,583,069.40
1965	1,649,394.10
1966	1,718,816.64
1967	1,403,485.50
1968	1,462,764.52
1969	1,060,733.64
1970	1,106,410.72
1971	701,051.95

\$94,847,032.76

Outstanding Unmatured
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at 31st October, 1945.

19. This Act may be cited as *The Power Commission Amendment Act, 1946*.

Short title.

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PORTION OF
NORTHWESTERN
ONTARIO

FOR TRANSMISSION LINES SEE MAP OF
NORTHWESTERN ONTARIO PROPERTIES
Scale 100 miles = 1 inch

THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO
MAP OF PORTION OF THE
PROVINCE OF ONTARIO
SHOWING
TRANSMISSION LINES AND STATIONS
OF THE
SOUTHERN ONTARIO SYSTEM

Scale: 100 miles or 15.78 miles = 1 inch

LEGEND

- High-Voltage Lines
- Low-Voltage Lines
- Distribution Lines
- Interconnected Lines not Owned by H.E.P.C.
- Existing Hydro-Electric Generating Stations
- Proposed Hydro-Electric Generating Stations
- Other Plants Supplying Power to H.E.P.C.
- High Voltage Stations
- Frequency Changer Stations
- Municipalities
- Distributing Stations
- Existing Regulating Dams
- Proposed Regulating Dams

Scale: 25 Miles = 1 Inch

THUNDER BAY SYSTEM
AND IN THE

NORTHERN ONTARIO PROPERTIES

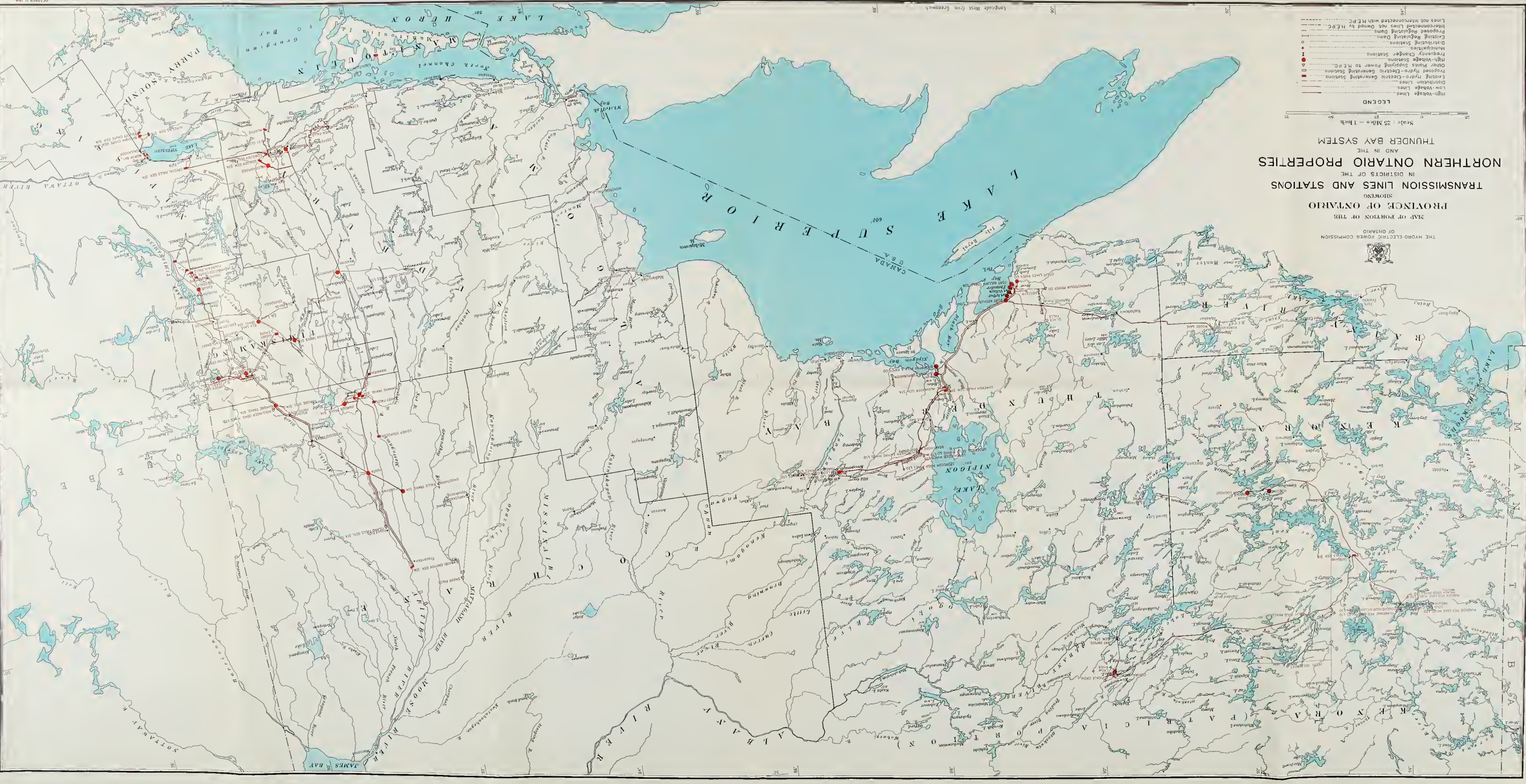
IN DISTRICTS OF THE
TRANSMISSION LINES AND STATIONS

SHOWING
PROVINCE OF ONTARIO
MAP OF PORTION OF THE

THE HYDRO-ELECTRIC POWER COMMISSION



- LEGEND
- High-Voltage Lines
 - Low-Voltage Lines
 - Distribution Lines
 - Existing Hydro-Electric Generating Stations
 - Proposed Hydro-Electric Generating Stations
 - Other Plants Supplying Power to H.E.P.C.
 - Existing Regulating Dams
 - Proposed Regulating Dams
 - Interconnected Lines not Owned by H.E.P.C.
 - Lines not interconnected with H.E.P.C.



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